

| Outcome | Tally of 20 throws | Pupil Totals |
|---------|--------------------|--------------|
| H H     |                    |              |
| H and T |                    |              |
| T T     |                    |              |

LP 141/5a

| Outcome     | Tally of 40 throws | Pupil Totals |
|-------------|--------------------|--------------|
| H H H       |                    |              |
| 1 H and 2 T |                    |              |
| 2 H and 1 T |                    |              |
| T T T       |                    |              |

LP 141/6a

# Outcome

# Class Totals

# Relative frequency

|         |  |  |
|---------|--|--|
| H H     |  |  |
| H and T |  |  |
| T T     |  |  |
| $n =$   |  |  |

# Outcome

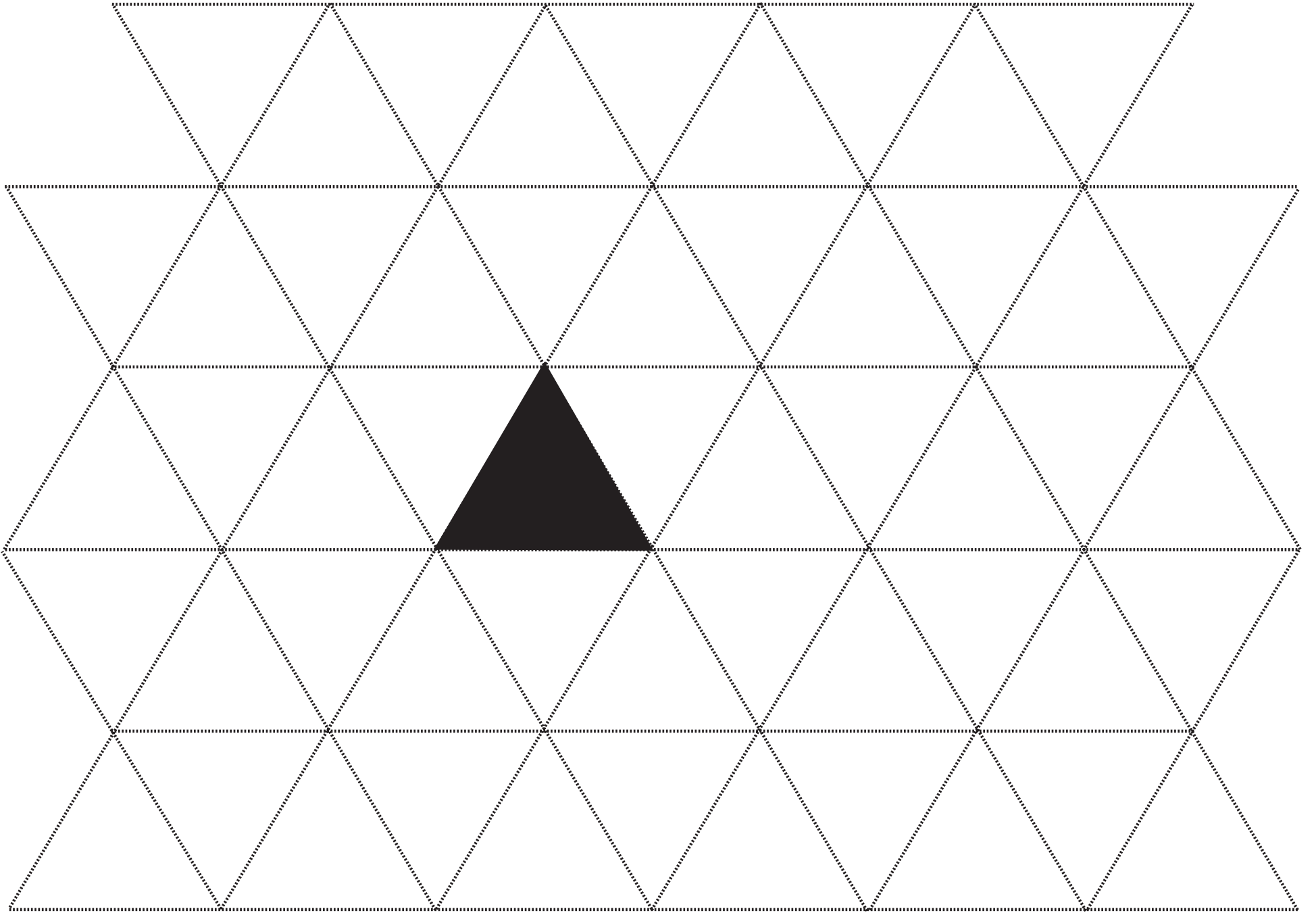
# Class Totals

# Relative frequency

|             |       |  |
|-------------|-------|--|
| H H H       |       |  |
| 1 H and 2 T |       |  |
| 2 H and 1 T |       |  |
| T T T       |       |  |
|             | $n =$ |  |

| Outcome | Tally of 72 throws | Pupil Total | Relative frequency | Class Total | Relative frequency |
|---------|--------------------|-------------|--------------------|-------------|--------------------|
| 1 and 1 |                    |             |                    |             |                    |
| 1 and 2 |                    |             |                    |             |                    |
| 1 and 3 |                    |             |                    |             |                    |
| 1 and 4 |                    |             |                    |             |                    |
| 1 and 5 |                    |             |                    |             |                    |
| 1 and 6 |                    |             |                    |             |                    |
| 2 and 2 |                    |             |                    |             |                    |
| 2 and 3 |                    |             |                    |             |                    |
| 2 and 4 |                    |             |                    |             |                    |
| 2 and 5 |                    |             |                    |             |                    |
| 2 and 6 |                    |             |                    |             |                    |
| 3 and 3 |                    |             |                    |             |                    |
| 3 and 4 |                    |             |                    |             |                    |
| 3 and 5 |                    |             |                    |             |                    |
| 3 and 6 |                    |             |                    |             |                    |
| 4 and 4 |                    |             |                    |             |                    |
| 4 and 5 |                    |             |                    |             |                    |
| 4 and 6 |                    |             |                    |             |                    |
| 5 and 5 |                    |             |                    |             |                    |
| 5 and 6 |                    |             |                    |             |                    |
| 6 and 6 |                    |             |                    |             |                    |
|         | $n =$              | 72          |                    | $n =$       |                    |

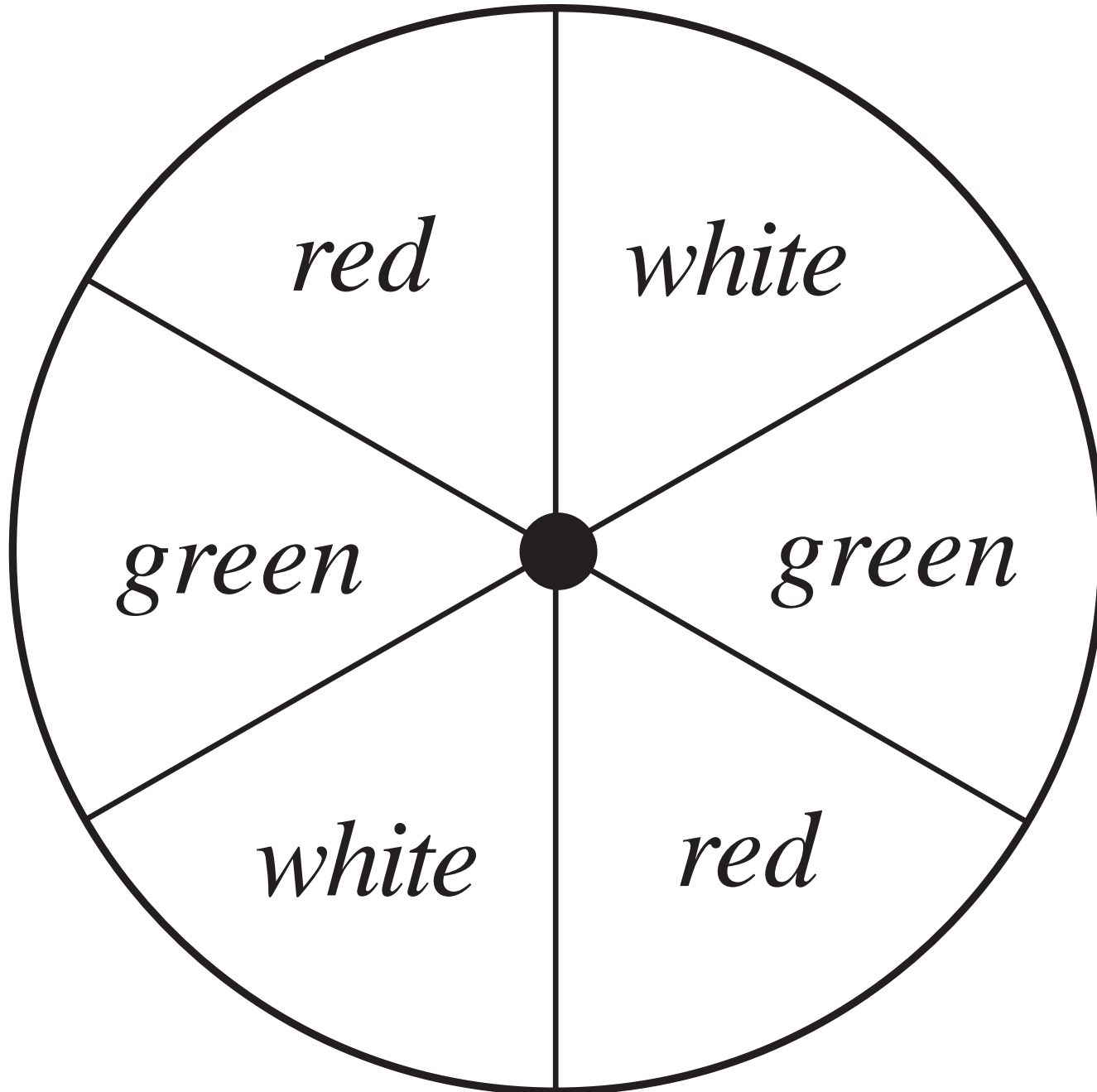
| Sum                | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|--------------------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|
| Frequency          |   |   |   |   |   |   |   |   |   |   |    |    |    |    |
| Relative frequency |   |   |   |   |   |   |   |   |   |   |    |    |    |    |
| Probability        |   |   |   |   |   |   |   |   |   |   |    |    |    |    |

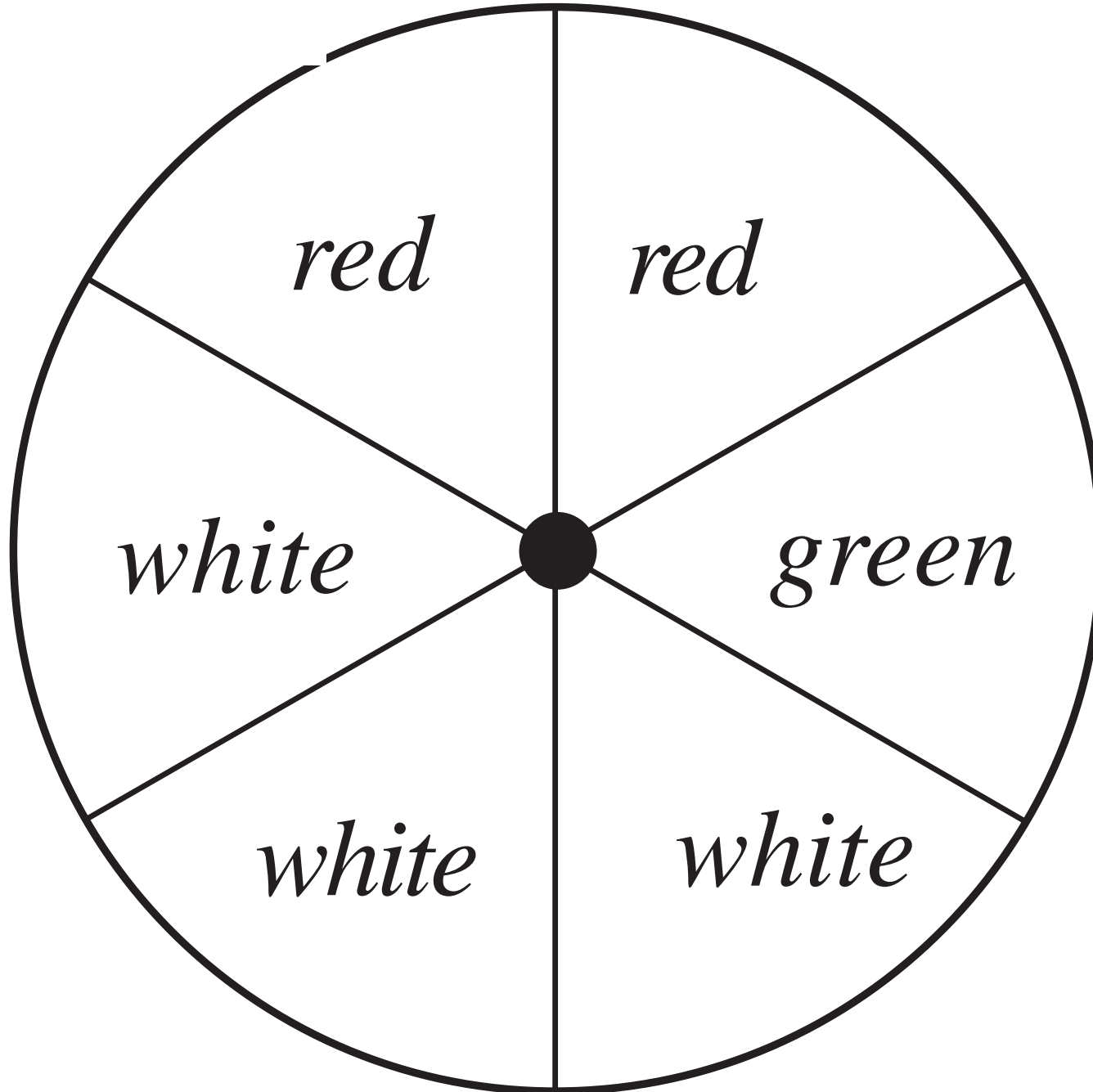


$$n = \boxed{\phantom{000000}}$$

|                    |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
|--------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|
| Product            | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 12 | 15 | 16 | 18 | 20 | 24 | 25 | 30 | 36 |
| Frequency          |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| Relative frequency |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
| Probability        |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |



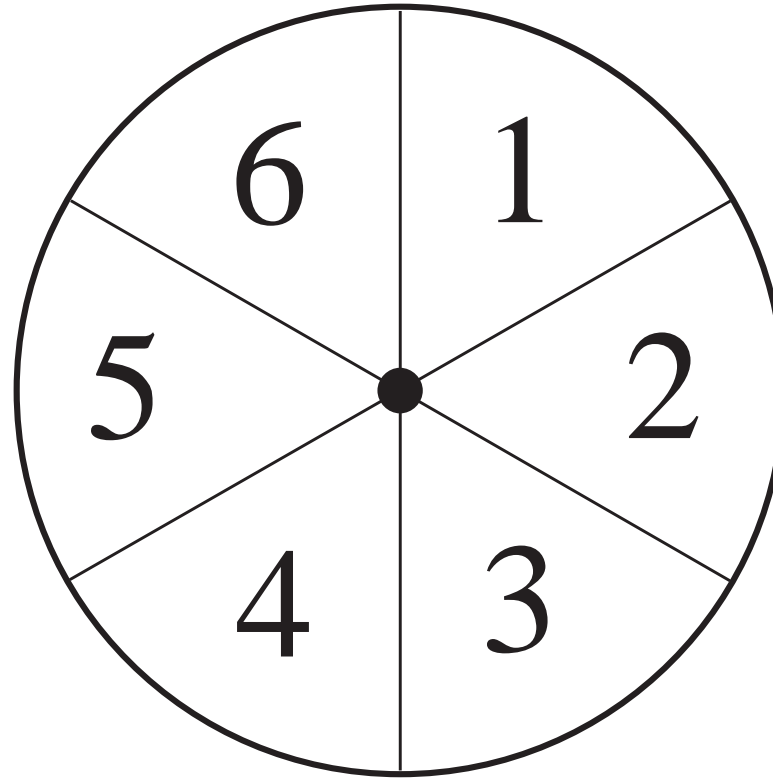




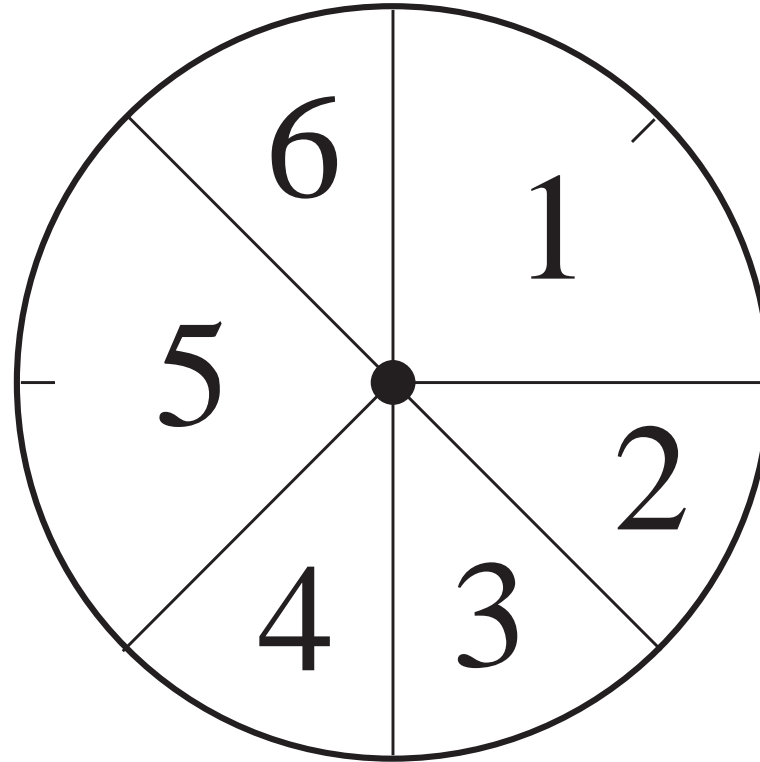
| <b>Outcome</b> | <b>Frequency</b> | <b>Relative frequency</b> |
|----------------|------------------|---------------------------|
| 1              | 145              |                           |
| 2              | 168              |                           |
| 3              | 189              |                           |
| 4              | 186              |                           |
| 5              | 162              |                           |
| 6              | 150              |                           |

$$n = \boxed{\phantom{0000}}$$

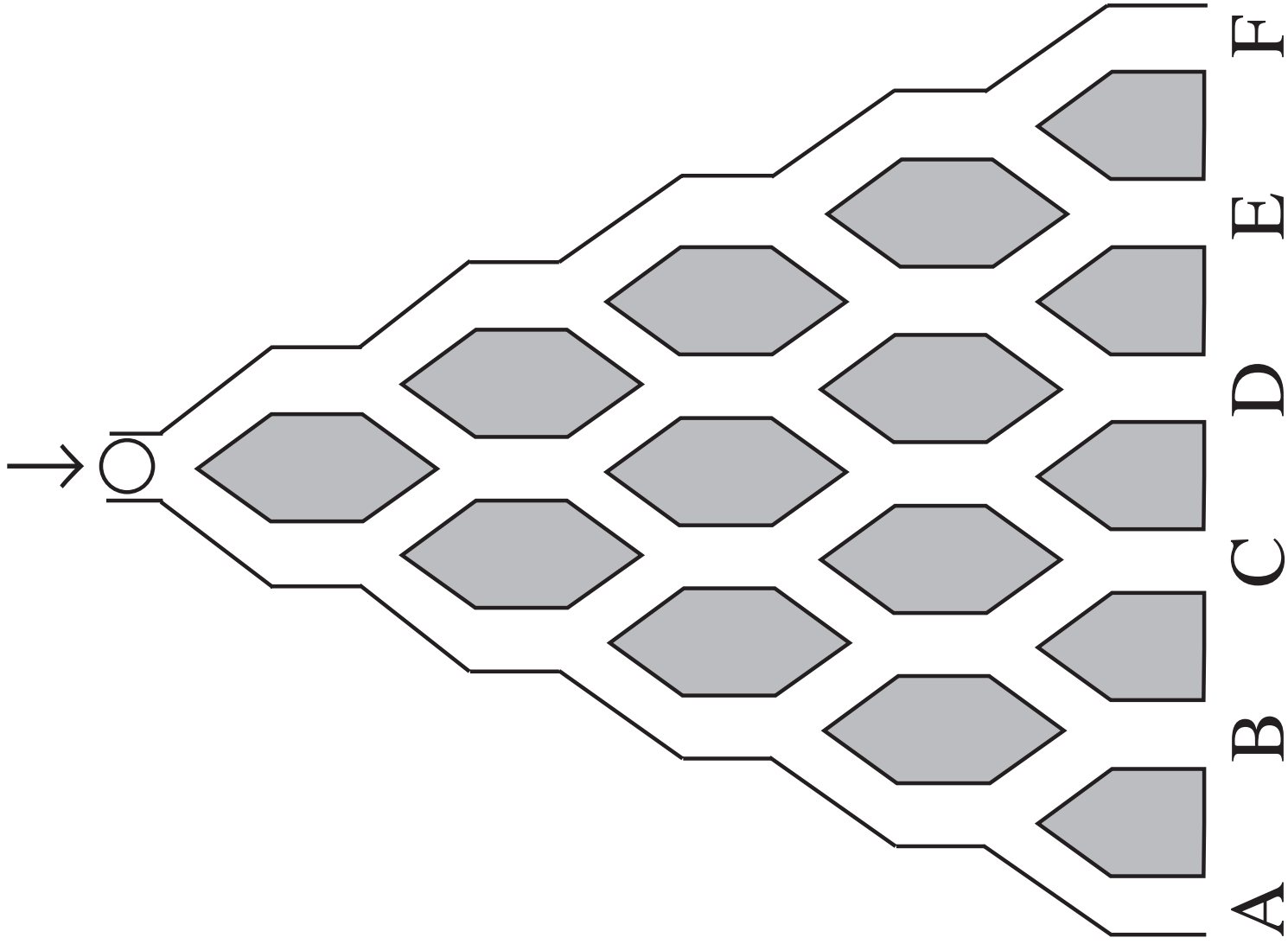
| Outcome            | 1 | 2 | 3 | 4 | 5 |
|--------------------|---|---|---|---|---|
| Frequency          |   |   |   |   |   |
| Relative frequency |   |   |   |   |   |



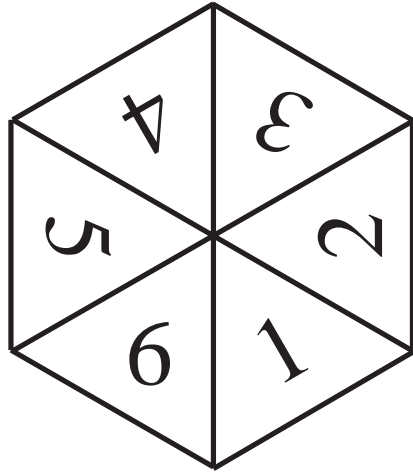
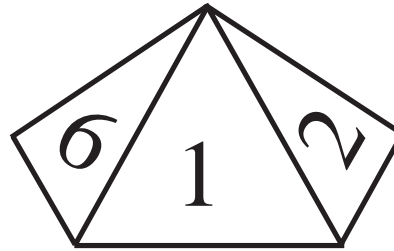
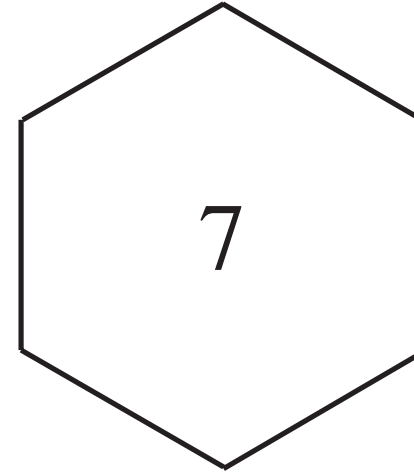
|                    |   |   |   |   |   |   |            |           |
|--------------------|---|---|---|---|---|---|------------|-----------|
| <b>Outcome</b>     | 1 | 2 | 3 | 4 | 5 | 6 | At least 5 | At most 5 |
| <b>Probability</b> |   |   |   |   |   |   |            |           |



|             |   |   |   |   |   |   |            |           |
|-------------|---|---|---|---|---|---|------------|-----------|
| Outcome     | 1 | 2 | 3 | 4 | 5 | 6 | At least 5 | At most 5 |
| Probability |   |   |   |   |   |   |            |           |

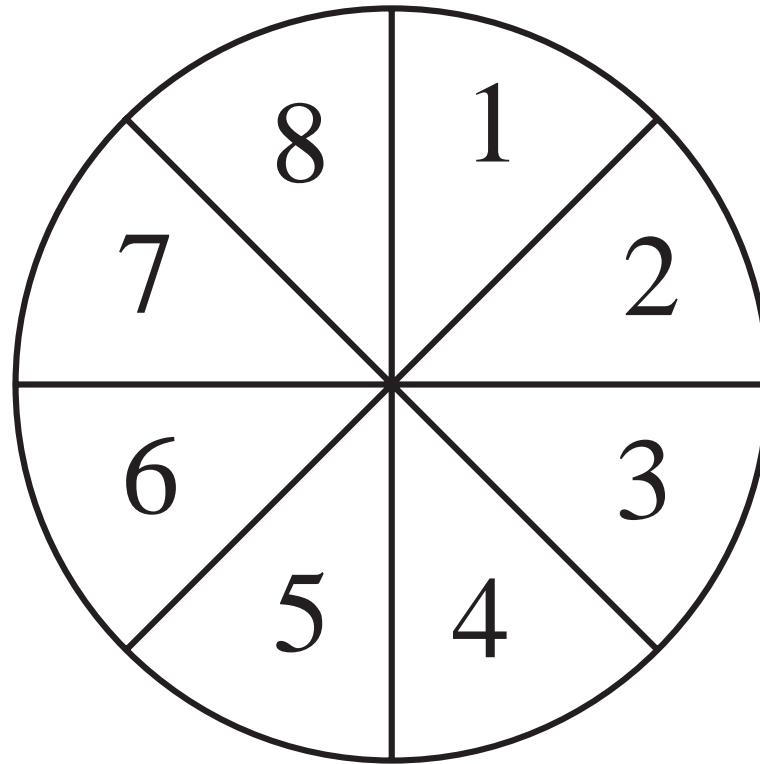


|             |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|
| Outcome     | A | B | C | D | E | F |
| Probability |   |   |   |   |   |   |

*Top view*

*Side view*

*Bottom view*


|                    |    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|----|
| Outcome            | 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| Frequency          | 11 | 12 | 13 | 10 | 12 | 14 | 28 |
| Relative frequency |    |    |    |    |    |    |    |

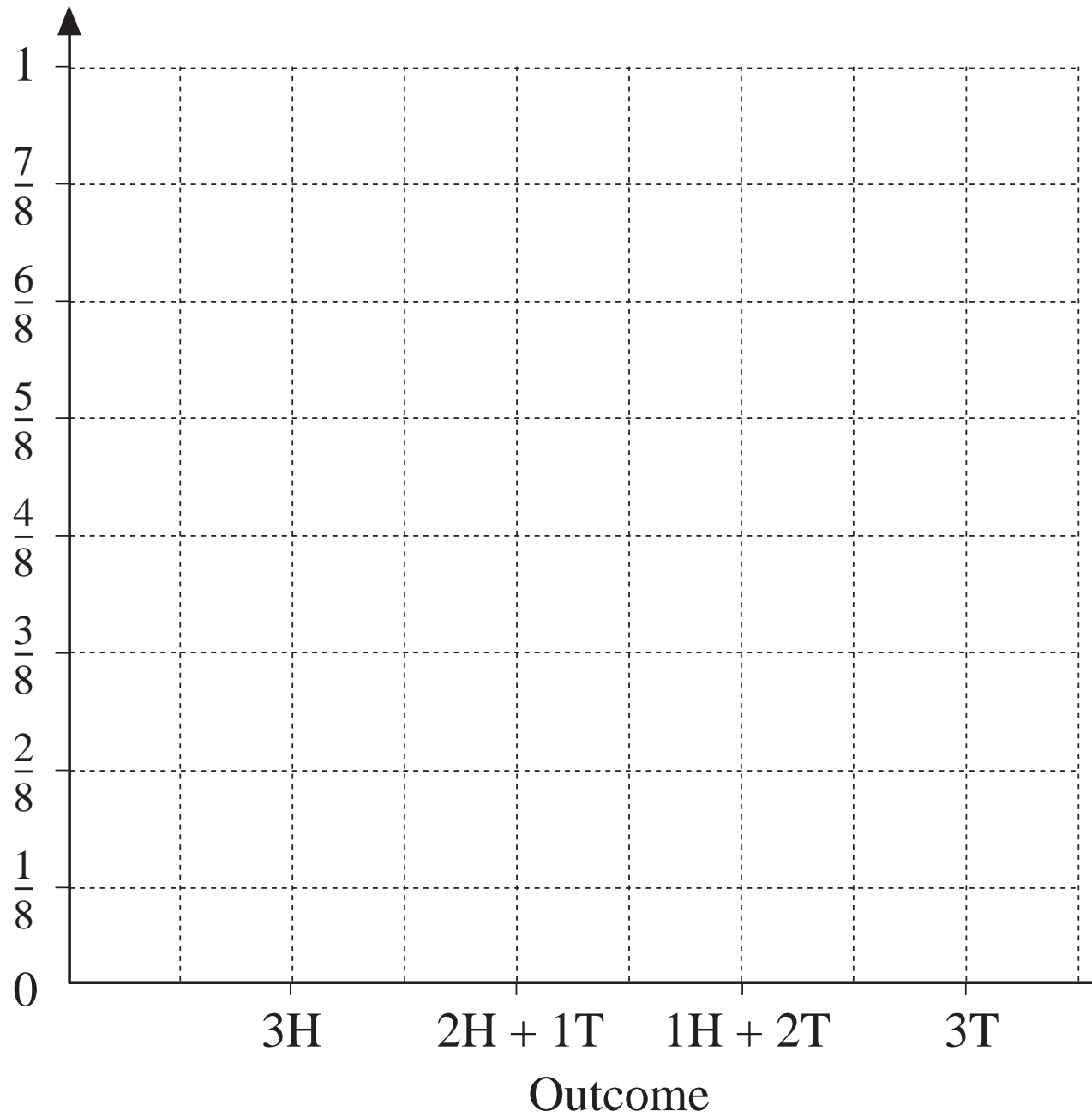


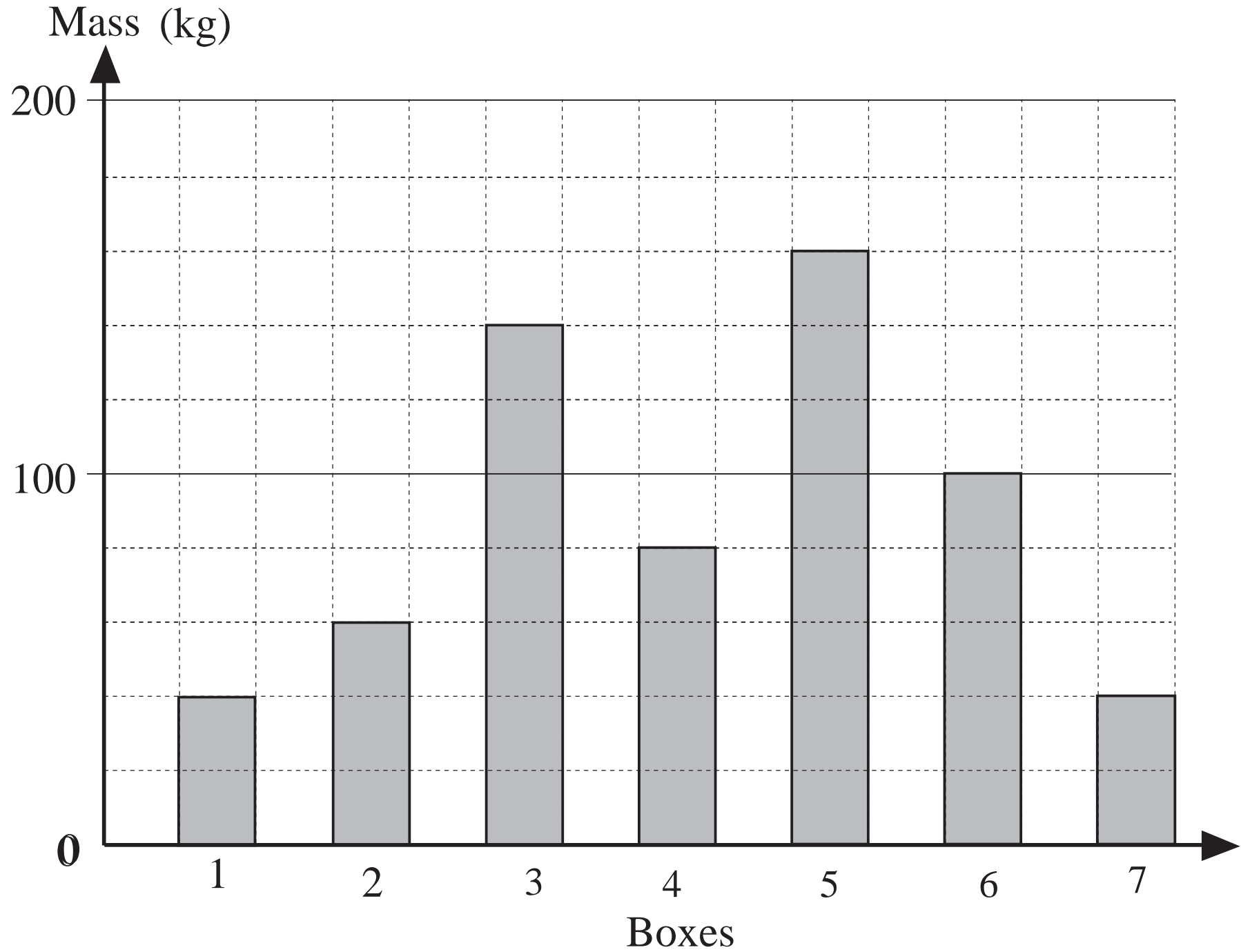


| Outcome     | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | $\geq 7$ | $\leq 4$ | prime number |
|-------------|---|---|---|---|---|---|---|---|----------|----------|--------------|
| Probability |   |   |   |   |   |   |   |   |          |          |              |

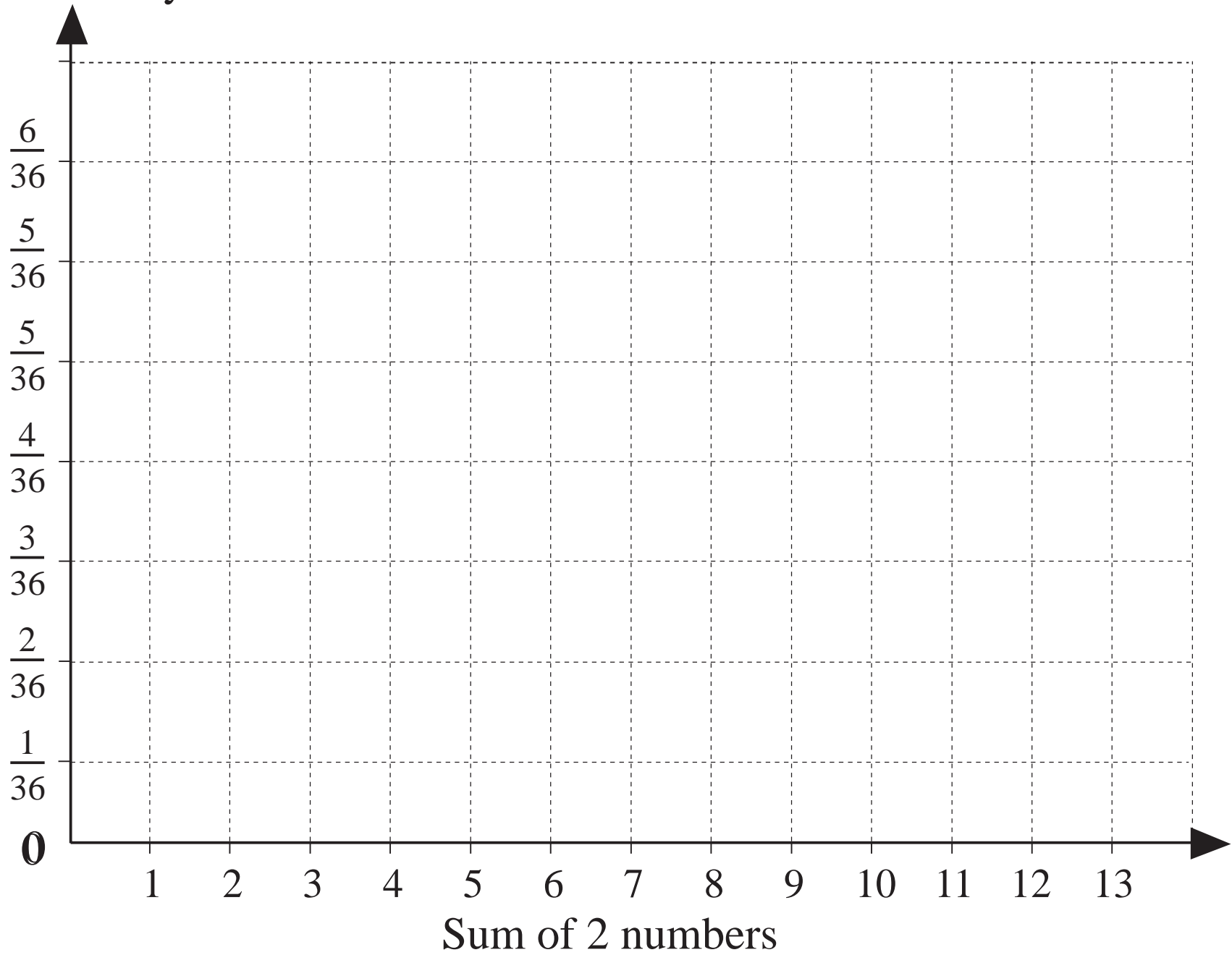
|                    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|
| Outcome            | 1  | 2  | 3  | 4  | 5  | 6  |
| Frequency          | 12 | 11 | 14 | 13 | 26 | 24 |
| Relative frequency |    |    |    |    |    |    |

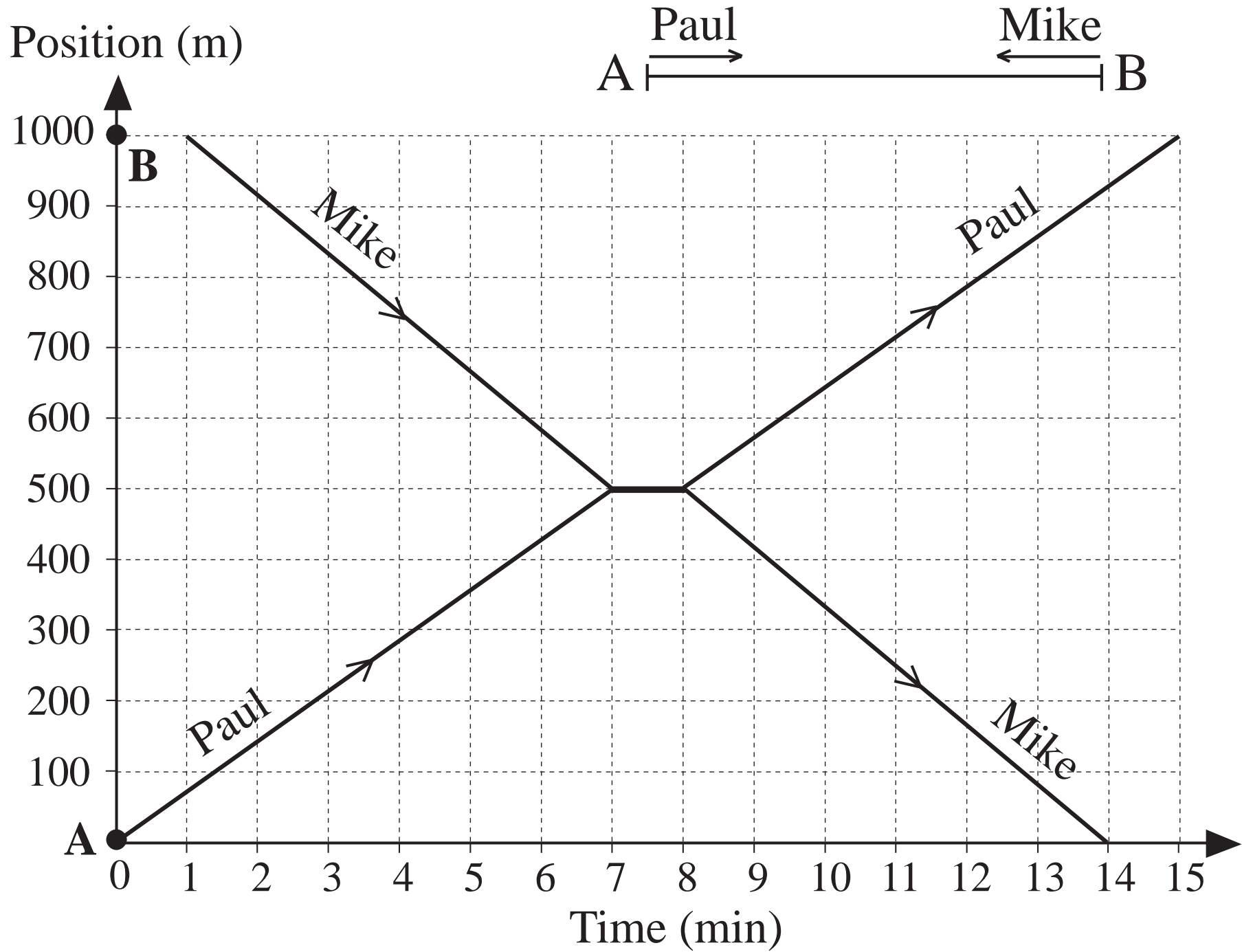
Probability





Probability





### Horizontal clues only

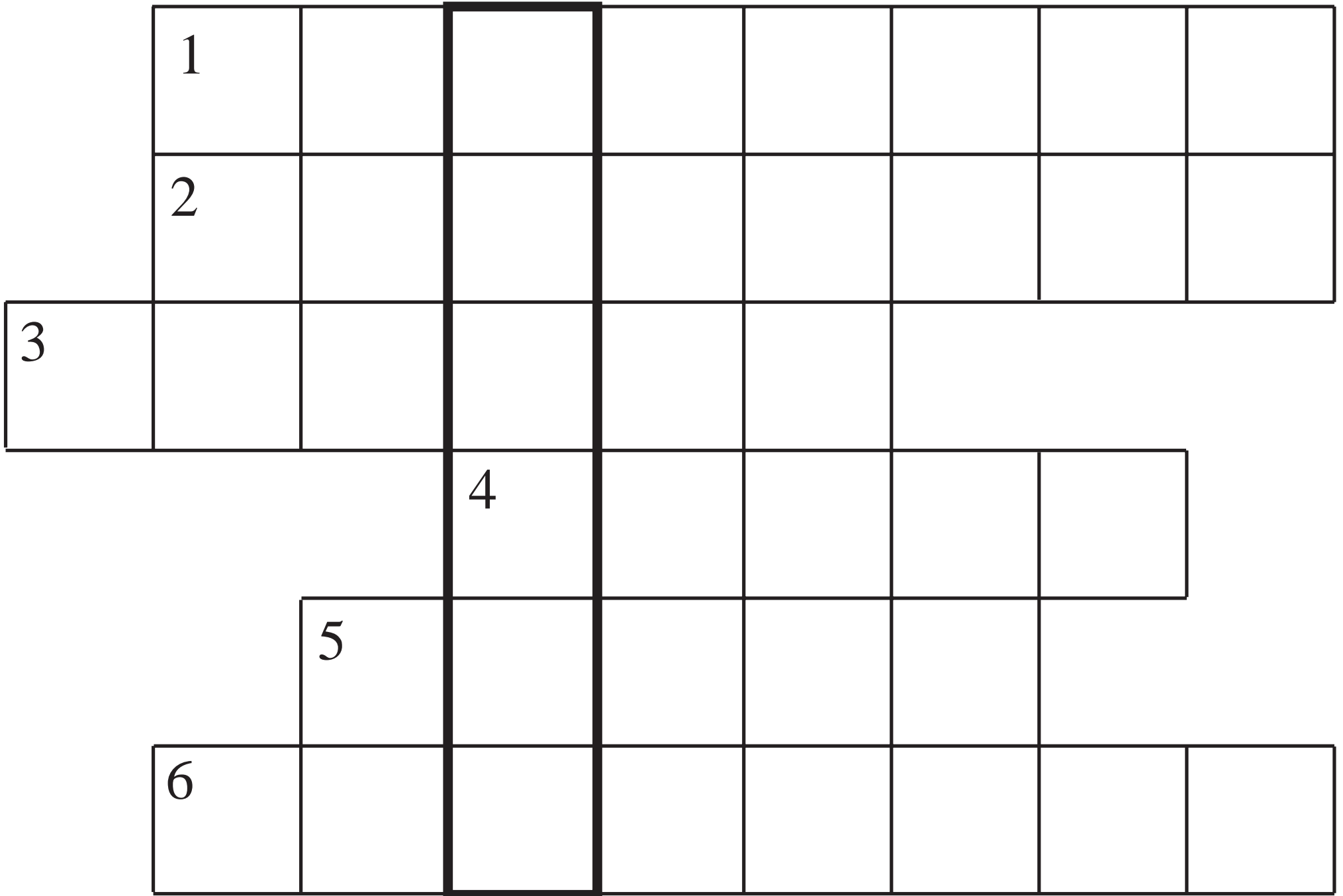
1. This word describes a number less than zero.
2. This word describes two straight lines in a plane which have no common point.
3. A quadrilateral with equal sides and equal angles.
4. A positive number with exactly two positive factors.
5. The number of vertices in a triangle.
6. This word describes number greater than zero.

|   |  |  |   |  |  |  |  |  |
|---|--|--|---|--|--|--|--|--|
| 1 |  |  |   |  |  |  |  |  |
| 2 |  |  |   |  |  |  |  |  |
| 3 |  |  |   |  |  |  |  |  |
|   |  |  | 4 |  |  |  |  |  |
|   |  |  | 5 |  |  |  |  |  |
| 6 |  |  |   |  |  |  |  |  |

### Horizontal clues only

1. This word describes a number less than zero.
2. This word describes two straight lines in a plane which have no common point.
3. A quadrilateral with equal sides and equal angles.
4. A positive number with exactly two positive factors.
5. The number of vertices in a triangle.
6. This word describes number greater than zero.

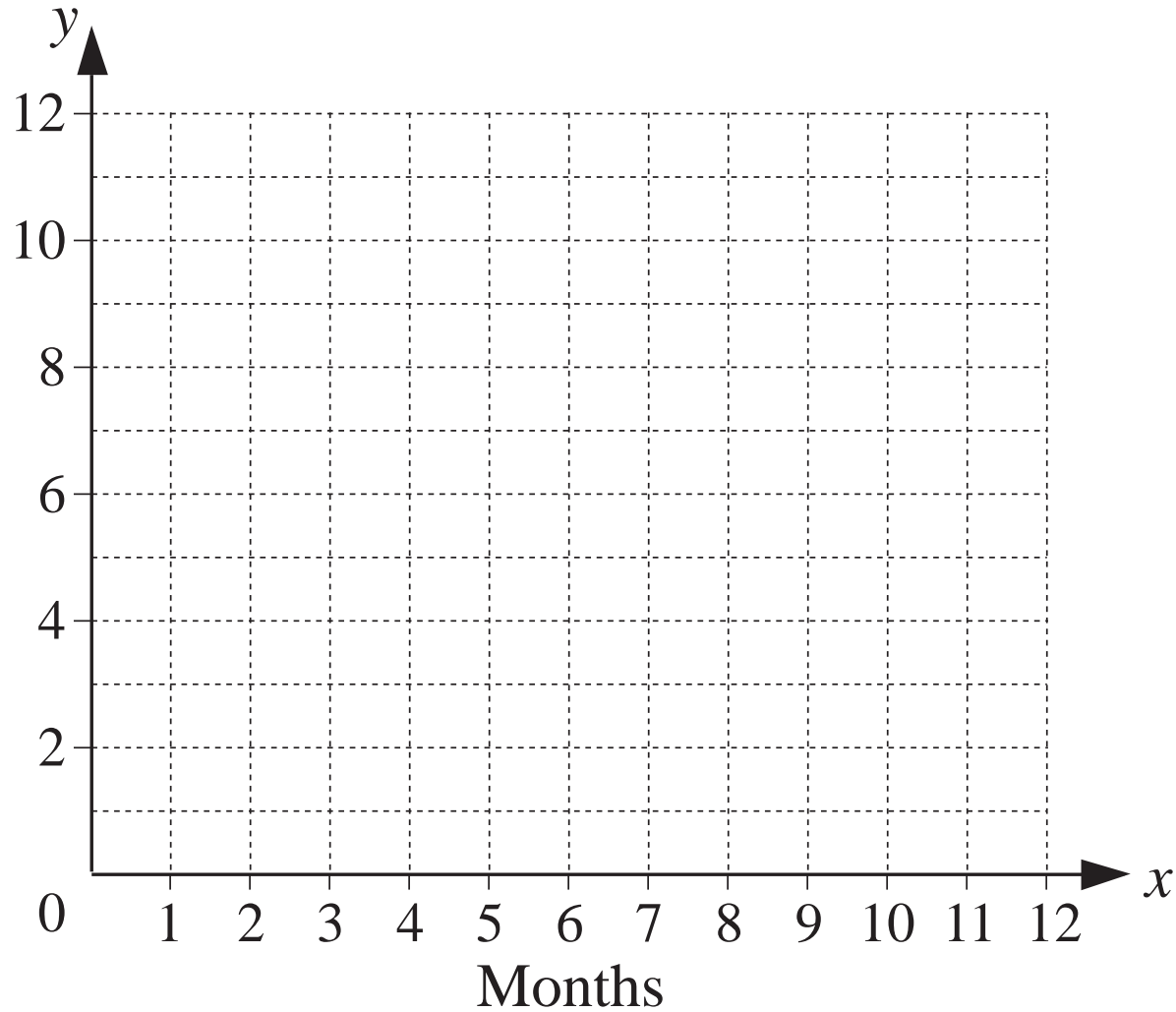
|   |  |  |   |  |  |  |  |  |
|---|--|--|---|--|--|--|--|--|
| 1 |  |  |   |  |  |  |  |  |
| 2 |  |  |   |  |  |  |  |  |
| 3 |  |  |   |  |  |  |  |  |
|   |  |  | 4 |  |  |  |  |  |
|   |  |  | 5 |  |  |  |  |  |
| 6 |  |  |   |  |  |  |  |  |



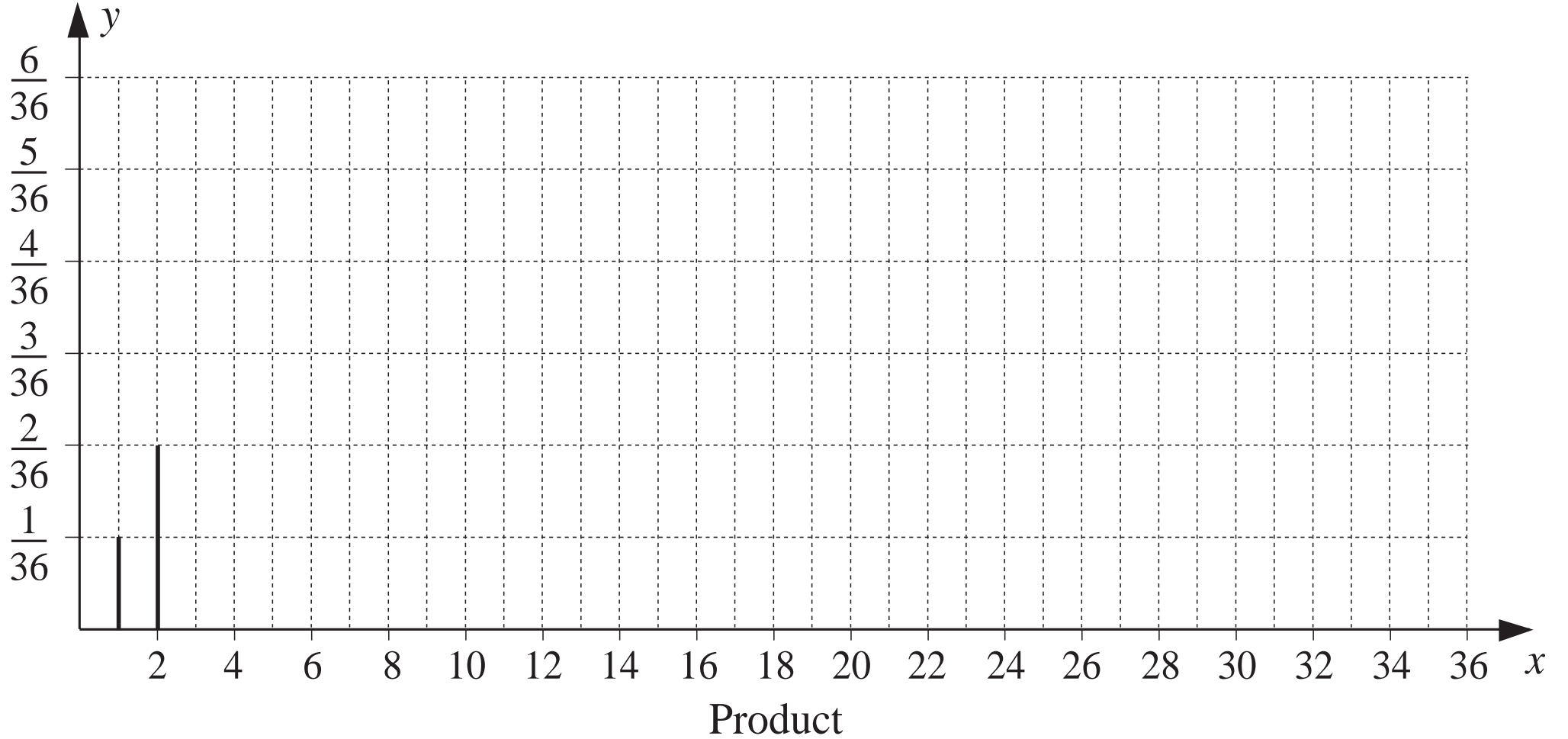


| Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|------|------|------|------|-----|------|------|------|------|------|------|------|
|      |      |      |      |     |      |      |      |      |      |      |      |

Number of birthdays

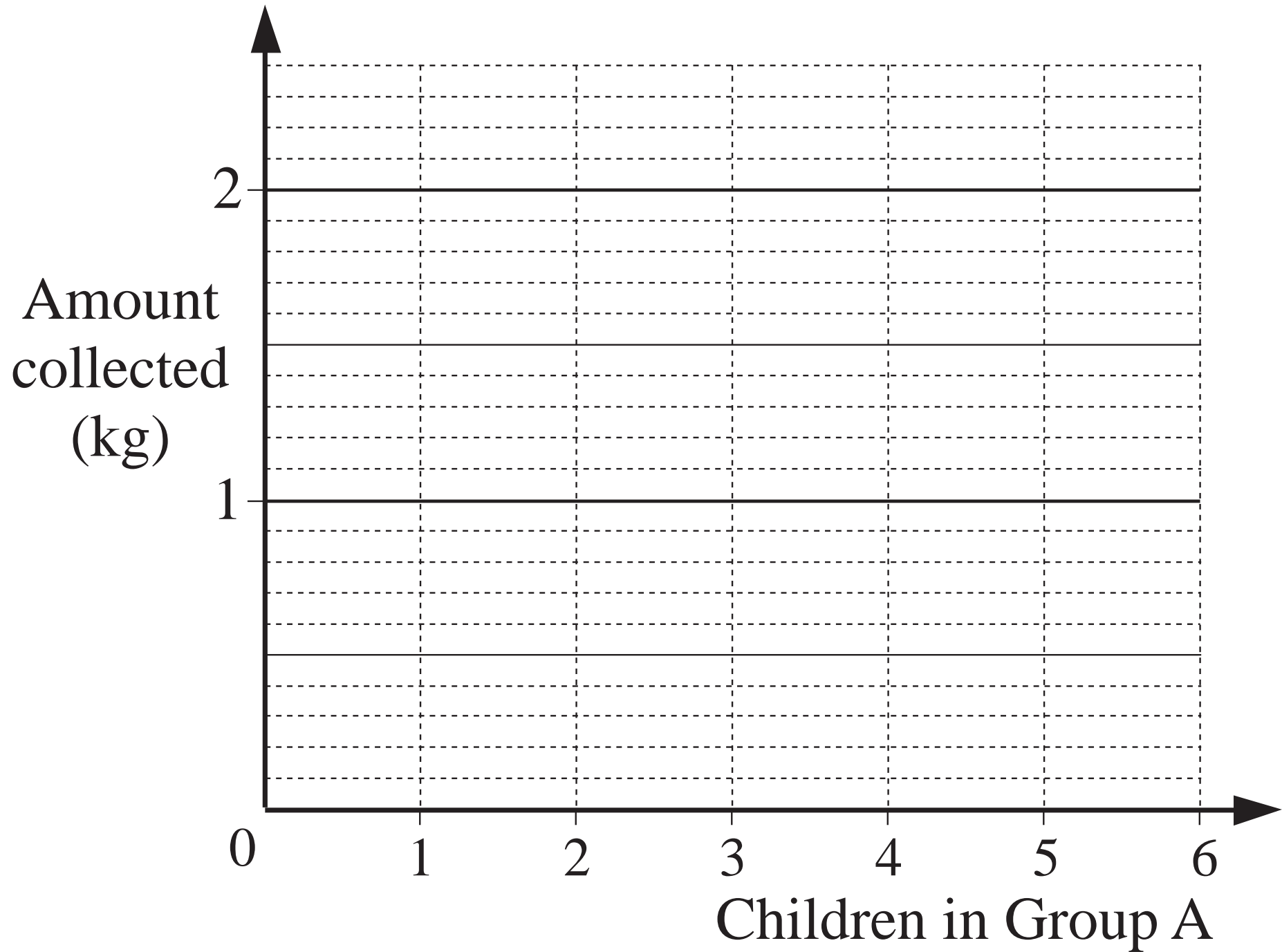


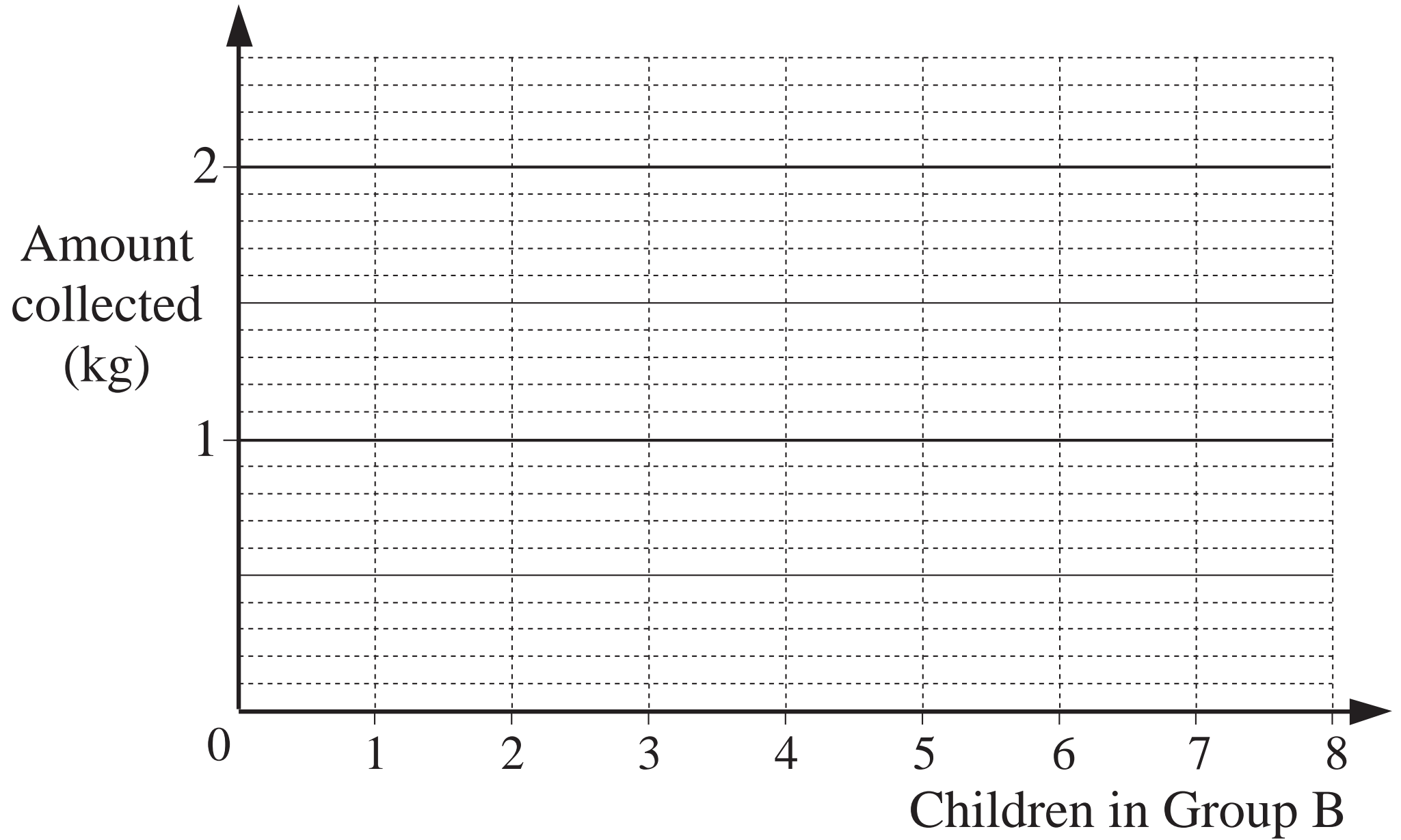
Probability

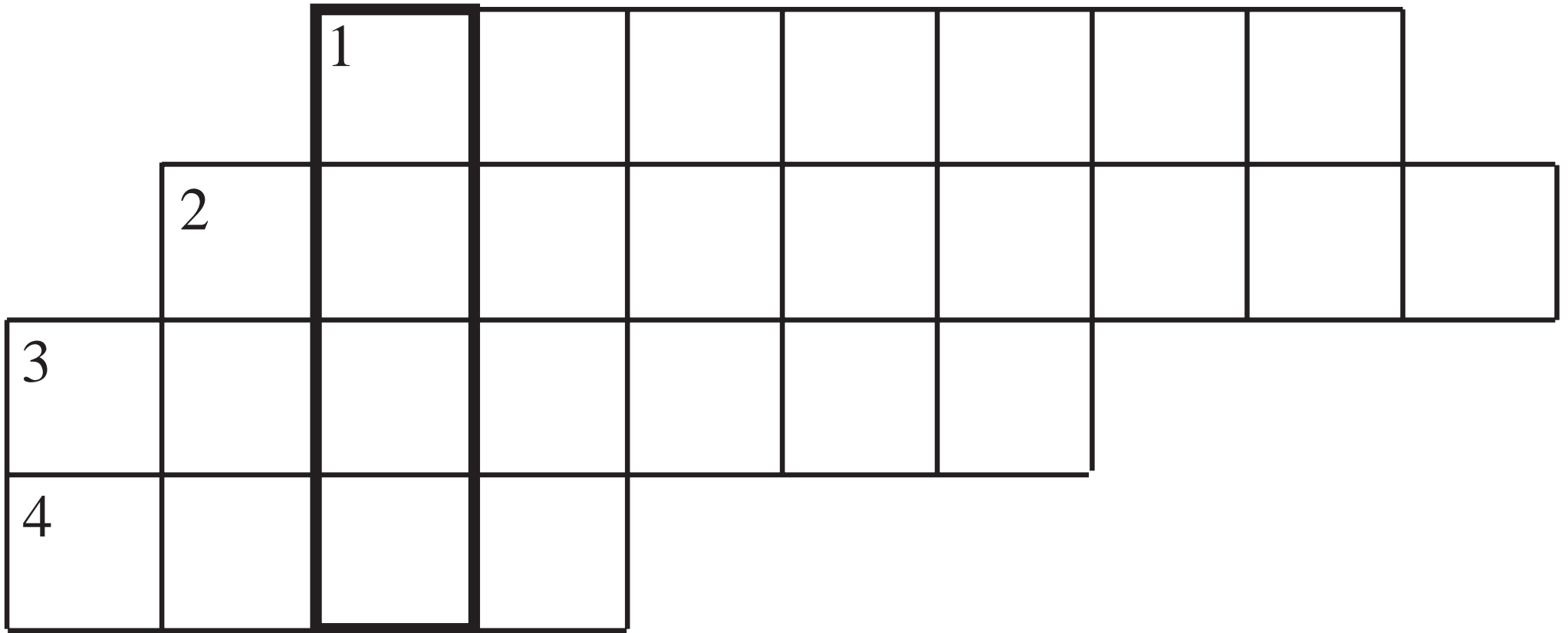


Distance (m)









|                     |      |      |     |      |      |      |      |      |      |      |      |      |      |
|---------------------|------|------|-----|------|------|------|------|------|------|------|------|------|------|
| Time (hours)        | 0    | 2    | 4   | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20   | 22   | 24   |
| Temperature<br>(°C) | 10.6 | 10.0 | 9.5 | 11.1 | 15.2 | 20.9 | 25.0 | 28.3 | 29.0 | 26.1 | 21.0 | 17.4 | 13.0 |

LP 149/5

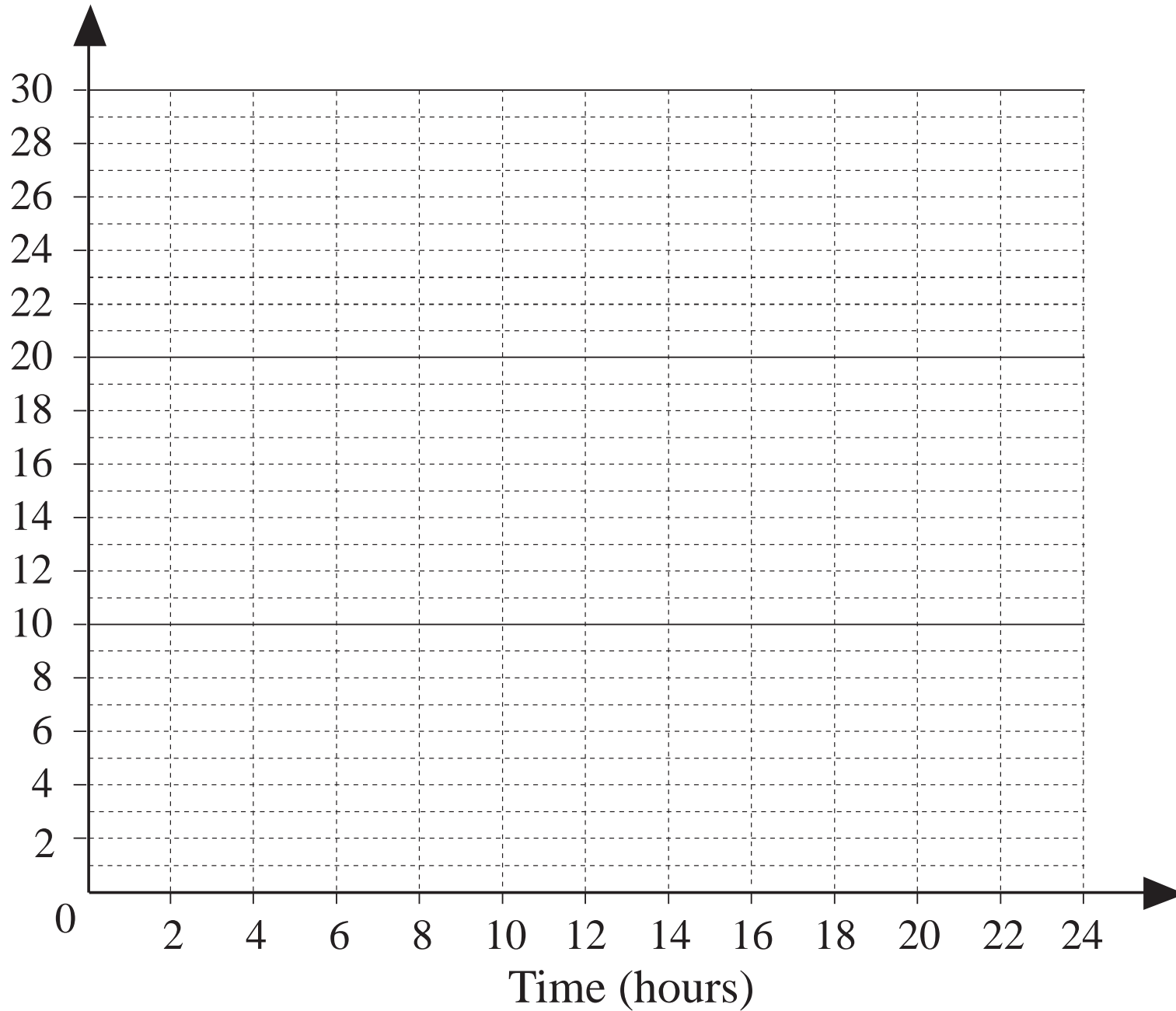
|                     |     |     |     |     |    |    |    |    |    |    |    |    |    |
|---------------------|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| Time (hours)        | 0   | 2   | 4   | 6   | 8  | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| Temperature<br>(°C) | -10 | -11 | -11 | -10 | -8 | -3 | 1  | 4  | 5  | 2  | 0  | -4 | -8 |

LP 149/6

| Day       | Mon | Tue | Wed | Thu | Fri | Sat | Sun |
|-----------|-----|-----|-----|-----|-----|-----|-----|
| Variety A | 5   | 5   | 4   | 1   | 0   | 2   | 5   |
| Variety B | 5   | 3   | 3   | 3   | 7   | 9   | 6   |

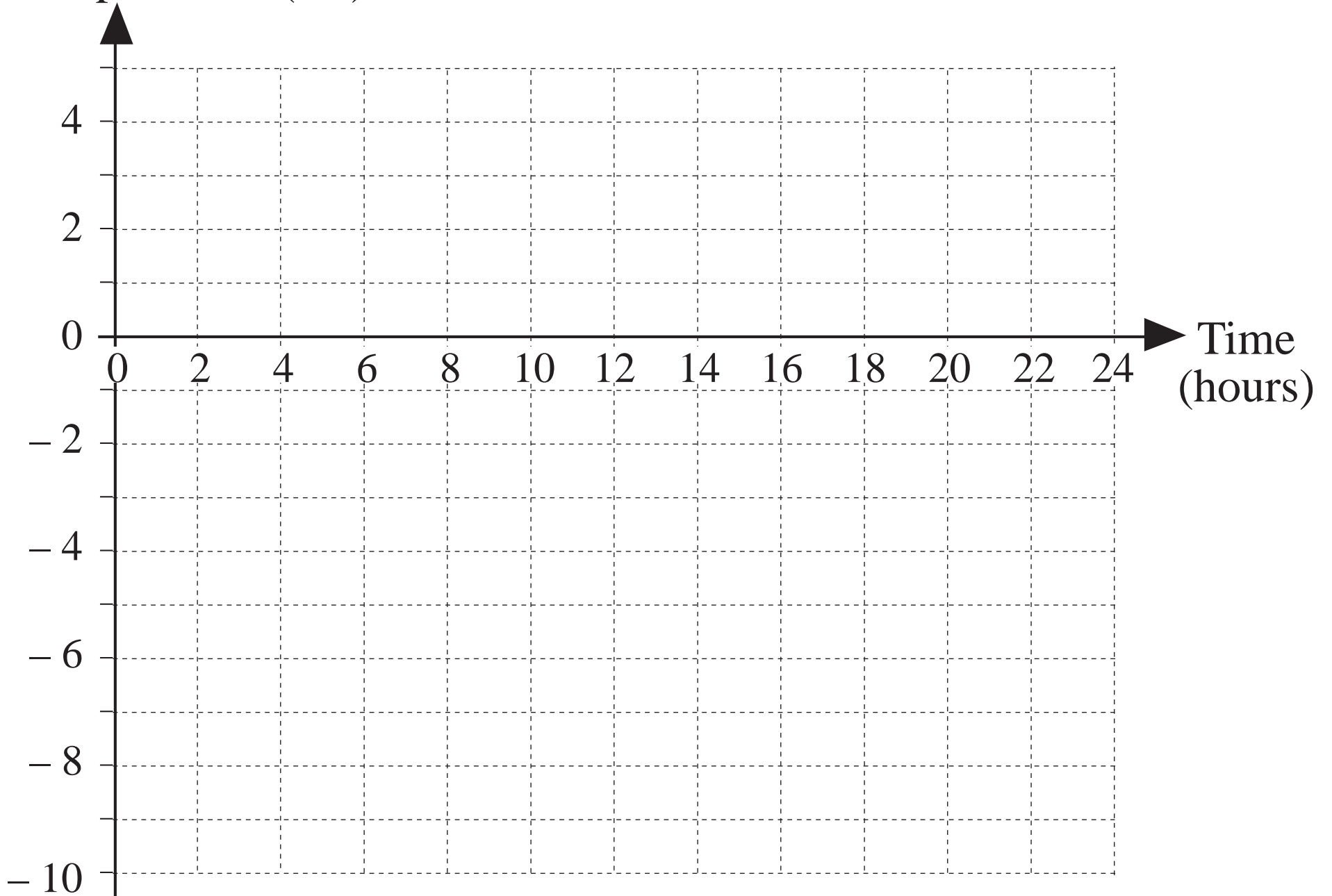
LP 150/1

Temperature ( $^{\circ}\text{C}$ )

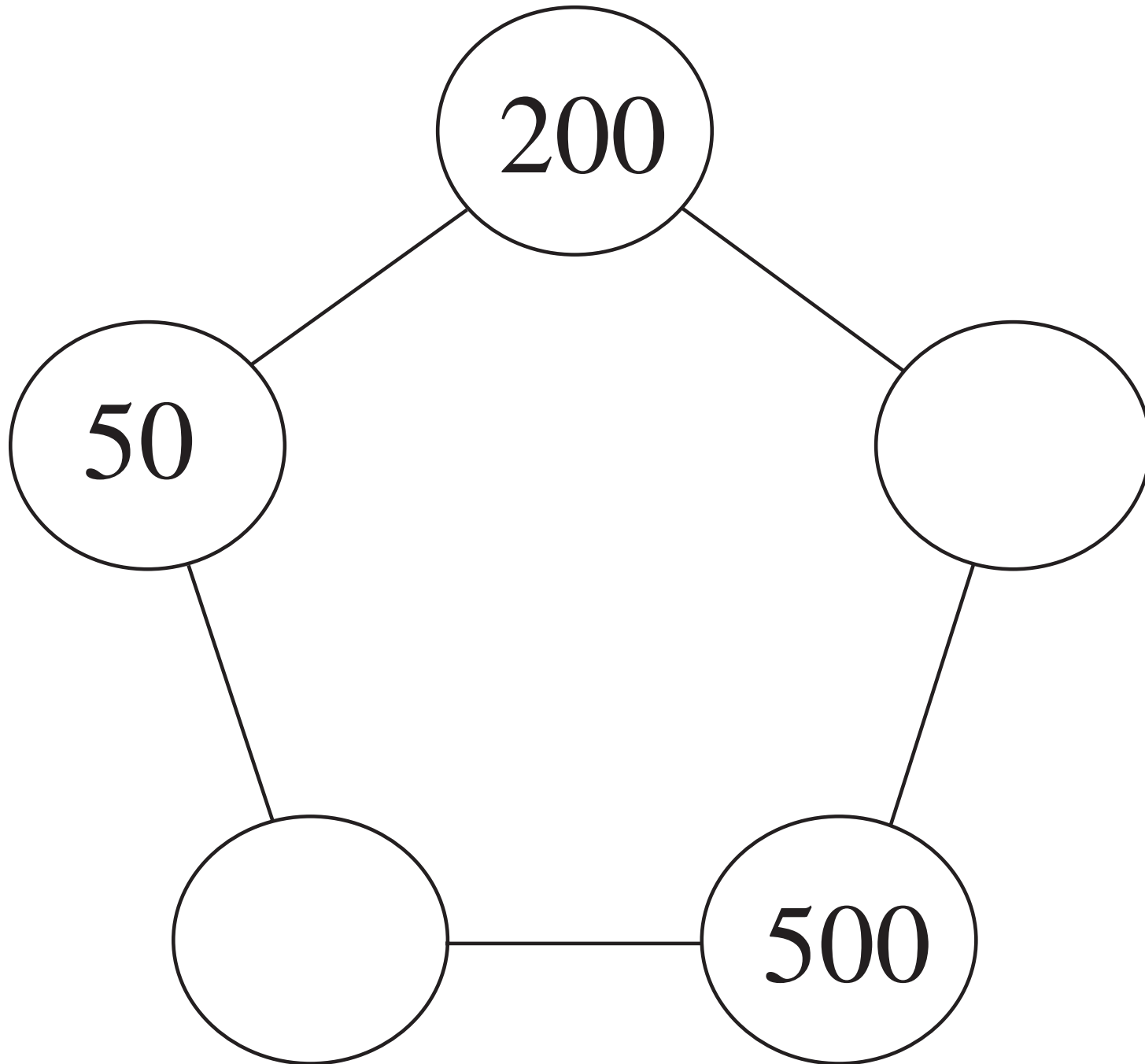




Temperature ( $^{\circ}\text{C}$ )



|                       | English | Mathematics | History | Geography | Mean mark per pupil |
|-----------------------|---------|-------------|---------|-----------|---------------------|
| Anne                  | 7       | 8           | 6       | 7         |                     |
| Brenda                | 8       | 8           | 7       | 5         |                     |
| Claire                | 9       | 10          | 9       | 8         |                     |
| Darren                | 7       | 9           | 9       | 7         |                     |
| Ella                  | 10      | 9           | 5       | 8         |                     |
| Freddy                | 8       | 10          | 6       | 5         |                     |
| Graham                | 7       | 9           | 7       | 9         |                     |
| Mean mark per subject |         |             |         |           |                     |



a)

|       |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|
|       |   | 2 | 0 | 8 | 1 | 7 |
|       |   |   | 4 | 0 | 5 | 3 |
|       | 1 | 0 | 4 | 1 | 0 | 4 |
| +     |   | 5 | 0 | 5 | 0 | 5 |
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b)

|       |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|
|       | 2 | 2 | 0 | 8 | 1 | 7 |
| -     |   | 6 | 7 | 0 | 9 | 2 |
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|       |   |   |   |   |   |   |

c)

|       |  |   |   |   |   |   |
|-------|--|---|---|---|---|---|
|       |  | 8 | 3 | 6 | 0 | 5 |
|       |  |   |   | × | 1 | 4 |
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LP 151/8

a)

|       |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|
|       |   | 1 | 0 | . | 2 |   |
|       | 1 | 0 | 3 | . | 4 | 5 |
| +     |   | 6 | 2 | . | 9 | 7 |
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|       |   |   |   |   |   |   |

b)

|       |   |   |   |   |   |
|-------|---|---|---|---|---|
|       | 3 | 6 | . | 8 | 2 |
| -     | 1 | 4 | . | 5 | 9 |
| <hr/> |   |   |   |   |   |
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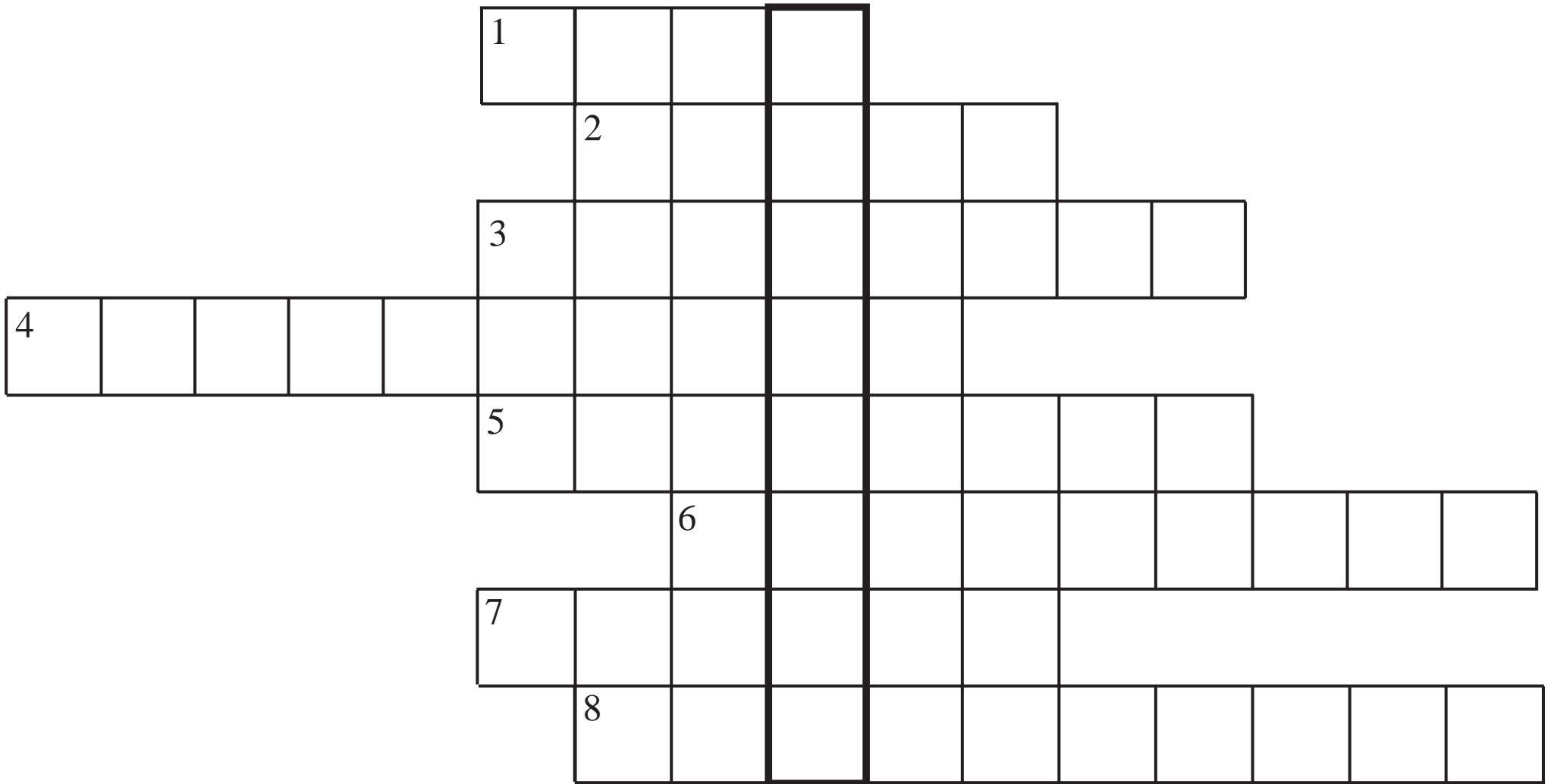
c)

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|       |   | 4 | . | 3 |
|       | × | 7 |   |   |
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d)

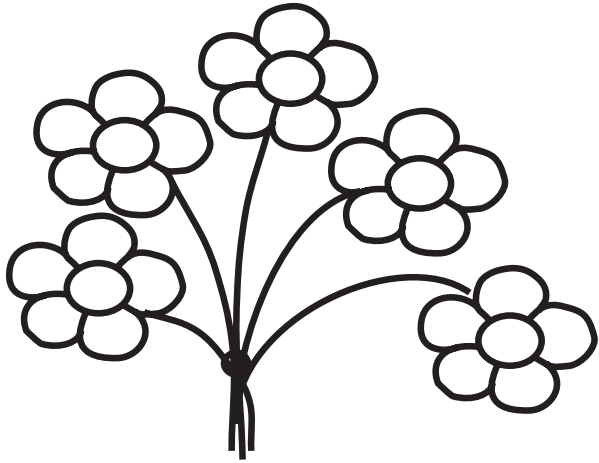
|       |   |   |   |
|-------|---|---|---|
|       |   |   |   |
| 4     | 6 | . | 8 |
| <hr/> |   |   |   |
|       |   |   |   |

LP 152/7



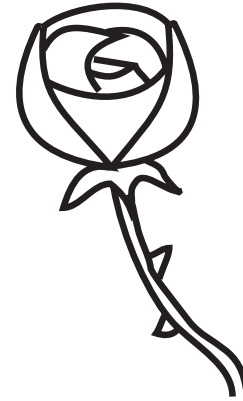
|    |    |    |    |    |
|----|----|----|----|----|
| 63 | 64 | 65 | 66 | 67 |
| 73 | 74 | 75 | 76 | 77 |
| 83 | 84 | 85 | 86 | 87 |
| 93 | 94 | 95 | 96 | 97 |

# Daisies



99 p a bunch

# Roses



50 p each

|   |          |          |
|---|----------|----------|
|   | <b>A</b> | <b>B</b> |
| + | <b>B</b> | <b>C</b> |
|   | <b>D</b> | <b>A</b> |

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| <b>A</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>B</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>C</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>D</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



a) i)  $3 + 2 =$                       ii)  $3 + 0 =$                       iii)  $3 + (-2) =$

iv)  $3 + (-4) =$                       v)  $3 + (-6) =$

b) i)  $-3 + (-2) =$                       ii)  $-3 + 0 =$                       iii)  $-3 + 2 =$

iv)  $-3 + 4 =$                       v)  $-3 + 6 =$

c) i)  $25 + (-41) + 12 + (-10) =$

ii)  $-100 + (-30) + 78 + (-48) =$

iii)  $5000 + (-2000) + (-3000) =$

iv)  $-85\,000 + (-15\,000) + (-20\,000) =$

v)  $-236\,700 + 0 =$

a) i)  $20 - (+ 14) =$

ii)  $20 - (+ 36) =$

iii)  $40 - (+ 40) =$

iv)  $35 - (- 20) =$

v)  $- 30 - (- 10) =$

vi)  $- 30 - (- 30) =$

vii)  $- 20 - (- 50) =$

viii)  $- 20 - (+ 30) =$

b) i)  $20 + (- 14) =$

ii)  $20 + (- 36) =$

iii)  $40 + (- 40) =$

iv)  $35 + (+ 20) =$

v)  $- 30 + (+ 10) =$

vi)  $- 30 + (+ 30) =$

vii)  $- 20 + (+ 50) =$

viii)  $- 20 + (- 30) =$

- a) 56 437 rounded to the nearest hundred is  .
- b) 3620 is 3615 rounded to the nearest  .
- c)  $46.5 \approx 47$  shows that  rounds up to the next greater place-value.
- d) The inequality  $2055 \leq x < 2065$  shows the possible values of  $x$  which round to  as the nearest ten.
- e) The inequality  shows the possible values of  $x$  which round to 10.40 as the nearest hundredth.

a) to the nearest 10

$$6208 \approx$$

$$14\ 035 \approx$$

$$90\ 455 \approx$$

$$383 \approx$$

$$9999 \approx$$

b) to the nearest 100

$$6208 \approx$$

$$14\ 035 \approx$$

$$90\ 455 \approx$$

$$383 \approx$$

$$9999 \approx$$

c) to the nearest 10th

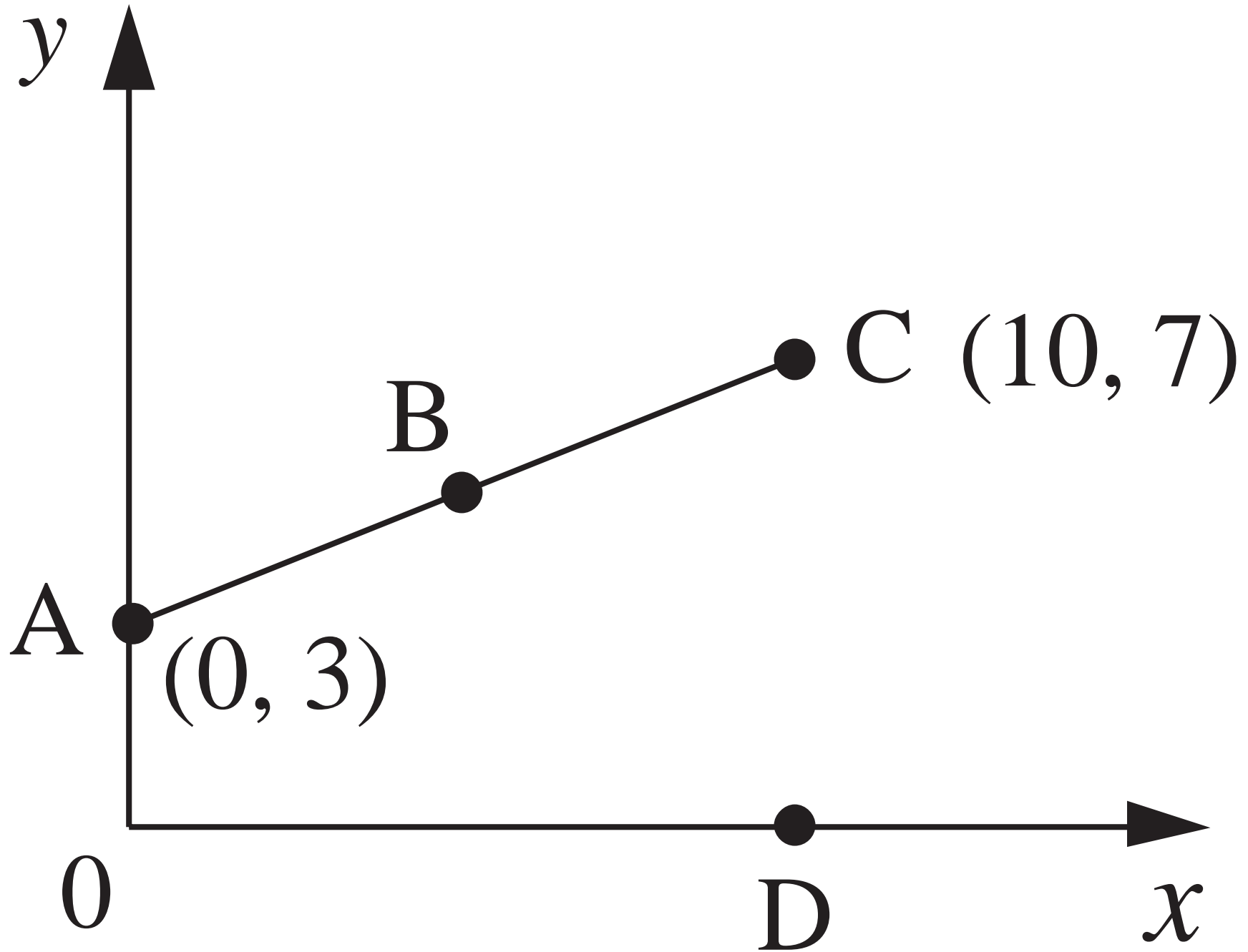
$$62.08 \approx$$

$$140.35 \approx$$

$$904.55 \approx$$

$$3.83 \approx$$

$$99.99 \approx$$



|                          |            |   |  |  |  |  |  |  |  |
|--------------------------|------------|---|--|--|--|--|--|--|--|
| Time (minutes)           |            | 0 |  |  |  |  |  |  |  |
| Distance from start (km) | 1st runner |   |  |  |  |  |  |  |  |
|                          | 2nd runner |   |  |  |  |  |  |  |  |
| Difference (km)          |            |   |  |  |  |  |  |  |  |

LP 154/7

a)

|   |   |   |   |   |   |
|---|---|---|---|---|---|
|   | 3 | 7 | . | 0 | 2 |
| 1 | 4 | 9 | . | 4 |   |
| + | 6 | 8 | . | 9 | 9 |
|   |   |   |   |   |   |

b)

|   |   |   |   |   |   |
|---|---|---|---|---|---|
|   | 7 | 8 | . | 3 | 9 |
| - | 4 | 9 | . | 5 | 3 |
|   |   |   |   |   |   |

c)

|   |   |   |   |
|---|---|---|---|
|   | 2 | . | 7 |
| × | 9 |   |   |
|   |   |   |   |

d)

|   |   |   |   |   |
|---|---|---|---|---|
|   |   |   |   |   |
| 6 | 4 | 5 | . | 0 |
|   |   |   |   | 6 |

LP 155/3

a)  $650 - (450 + 120) =$

.....  
or:

---

b)  $650 - (450 - 120) =$

.....  
or:

---

c)  $50 \times (12 + 38) =$

.....  
or:

---

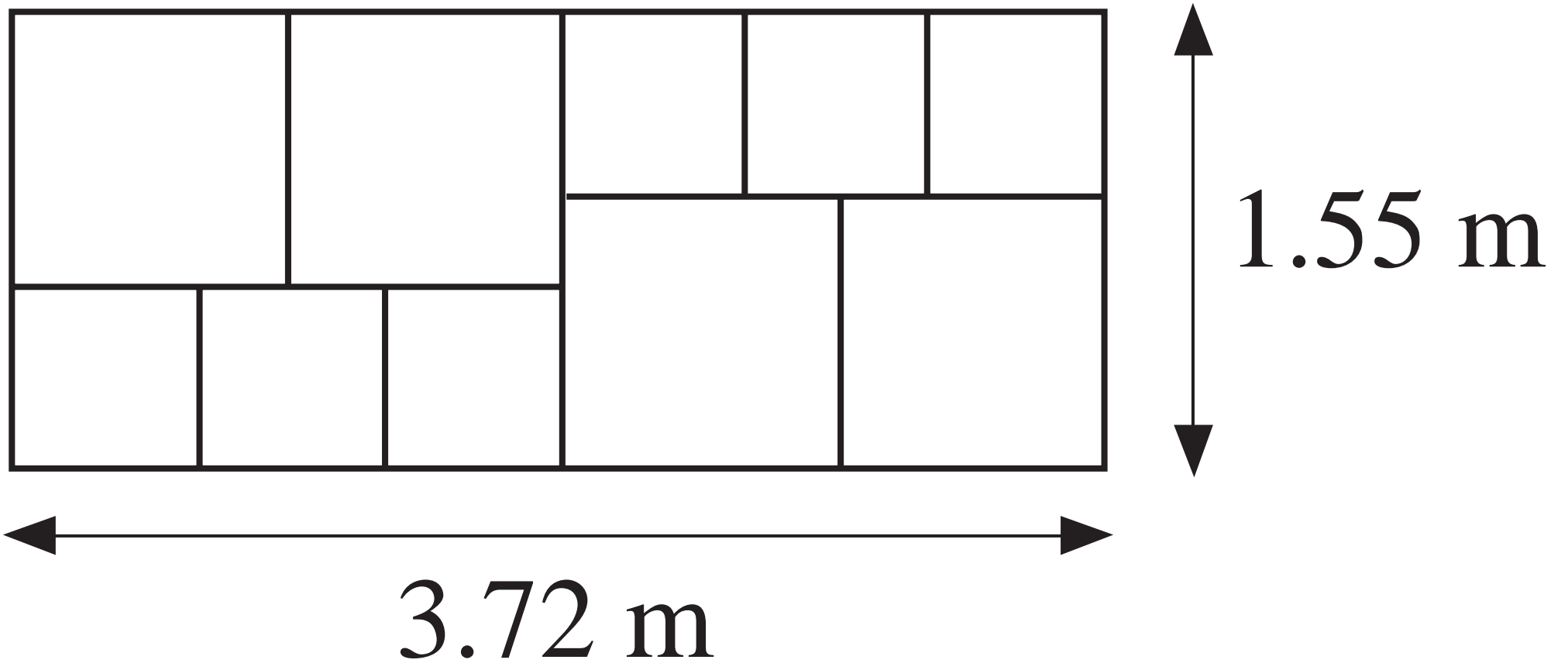
d)  $(200 - 180) \times 7 =$

.....  
or:

---

e)  $(90 + 72) \div 18 =$

.....  
or:





a)

|     |        |                 |       |     |     |                |      |                |
|-----|--------|-----------------|-------|-----|-----|----------------|------|----------------|
| $a$ | - 1301 | $73\frac{1}{2}$ | - 2.4 | 584 |     | $-\frac{4}{5}$ |      | $1\frac{1}{8}$ |
| $b$ | - 1297 | $77\frac{1}{2}$ | 1.6   |     | 3.1 |                | - 11 |                |

b)

|     |      |   |     |                |       |                 |       |                |
|-----|------|---|-----|----------------|-------|-----------------|-------|----------------|
| $u$ | 1248 | 0 | - 9 | $\frac{6}{10}$ | - 102 | $3\frac{3}{20}$ |       | 6.9            |
| $v$ | 416  | 0 | - 3 | $\frac{2}{10}$ |       |                 | - 210 | $1\frac{1}{2}$ |

a)  $843 + (157 + 36) = 1000 + \boxed{\phantom{000}}$

b)  $843 + (157 + k) = 1000 \boxed{\phantom{000}} k$

c)  $(843 + 41) + 157 = 1000 \boxed{\phantom{000}} 41$

d)  $(843 + n) + 157 = 1000 + \boxed{\phantom{000}}$

e)  $843 + (157 - 69) = 1000 \boxed{\phantom{000}} 69$

f)  $843 + (157 - t) = 1000 - \boxed{\phantom{000}}$

g)  $(843 - 55) + 157 = 1000 - \boxed{\phantom{000}}$

h)  $(843 - u) + 157 = 1000 \boxed{\phantom{000}} u$

i)  $(843 + 16) + (157 + 16) = 1000 \boxed{\phantom{000}} \boxed{\phantom{000}}$

j)  $(843 + x) + (157 + x) = 1000 \boxed{\phantom{000}} \boxed{\phantom{000}}$

k)  $(843 + 72) + (157 - 72) = \boxed{\phantom{000}}$

l)  $(843 + y) + (157 - y) = \boxed{\phantom{000}}$

a)  $(685 + 15) - 185 = 500 + \square$

b)  $(685 + a) - 185 = 500 \square a$

c)  $685 - (185 + 23) = 500 \square 23$

d)  $685 - (185 + b) = 500 - \square$

e)  $(685 - 45) - 185 = 500 \square 45$

f)  $(685 - c) - 185 = 500 \square c$

g)  $685 - (185 - 30) = 500 \square 30$

h)  $685 - (185 - d) = 500 + \square$

i)  $(685 + 51) - (185 + 51) = \square$

j)  $(685 + e) - (185 + e) = \square$

k)  $(685 + 4) - (185 - 4) = 500 \square \square$

l)  $(685 + f) - (185 - f) = 500 \square \square$

m)  $(685 - 10) - (185 + 10) = 500 \square \square$

n)  $(685 - g) - (185 + g) = 500 \square \square$

a)

|     |   |     |     |    |      |                |                |     |                 |
|-----|---|-----|-----|----|------|----------------|----------------|-----|-----------------|
| $u$ | 4 | 1.5 | 0.6 | -2 |      | $3\frac{1}{6}$ |                | 105 |                 |
| $v$ | 1 | 3.5 | 4.4 | 7  | -1.5 |                | $\frac{12}{5}$ |     | $-1\frac{3}{4}$ |

b)

|     |      |     |     |   |   |    |    |               |     |
|-----|------|-----|-----|---|---|----|----|---------------|-----|
| $s$ | 5000 | 100 | 400 | 1 |   | 10 | 50 |               | 2.5 |
| $t$ | 2    | 100 | 25  |   | 8 |    |    | $\frac{1}{2}$ |     |

- a)  $(60 \times 3) \times 20 = 1200$   3
- b)  $(60 \times n) \times 20 = 1200 \times$
- c)  $60 \times (20 \times 4) = 1200$   4
- d)  $60 \times (20 \times m) = 1200 \times$
- e)  $(60 \div 3) \times 20 = 1200 \div$
- f)  $(60 \div s) \times 20 = 1200$   s
- g)  $60 \times (20 \div 4) = 1200$   4
- h)  $60 \times (20 \div t) = 1200 \div$
- i)  $(60 \times 2) \times (20 \times 2) = 1200 \times$
- j)  $(60 \times u) \times (20 \times u) = 1200 \times$
- k)  $(60 \div 4) \times (20 \div 4) = 1200 \div$
- l)  $(60 \div v) \times (20 \div v) = 1200 \div$
- m)  $(60 \times 5) \times (20 \div 5) =$
- n)  $(60 \times a) \times (20 \div a) =$

a)  $(1500 \times 2) \div 30 = 50 \times \square$

b)  $(1500 \times a) \div 30 = 50 \square a$

c)  $1500 \div (30 \times 2) = 50 \square 2$

d)  $1500 \div (30 \times a) = 50 \div \square$

e)  $(1500 \div 2) \div 30 = 50 \div \square$

f)  $(1500 \div a) \div 30 = 50 \square a$

g)  $1500 \div (30 \div 2) = 50 \square 2$

h)  $1500 \div (30 \div a) = 50 \times \square$

i)  $(1500 \times 2) \div (30 \div 2) = 50 \square \square$

j)  $(1500 \times a) \div (30 \div a) = 50 \square \square$

k)  $(1500 \div 2) \div (30 \times 2) = 50 \square \square$

l)  $(1500 \div a) \div (30 \times a) = 50 \square \square$

m)  $(1500 \times 2) \div (30 \times 2) = 50 \square \square$

n)  $(1500 \times a) \div (30 \times a) = 50 \square \square$

o)  $(1500 \div 2) \div (30 \div 2) = 50 \square \square$

p)  $(1500 \div a) \div (30 \div a) = 50 \square \square$

- a)  $\frac{1}{2}$  of 60  50% of 60
- b) 40% of 50 m  20% of 100 m
- c)  $\frac{3}{4}$  of £100  70% of £100
- d) 30% of 90 kg  20% of 150 kg
- e) 20% of 5 km   $\frac{2}{10}$  of 5 km
- f)  $\frac{3}{5}$  of £70  60% of £75
- g) 75% of 2 litres  1.75 litres
- h)  $\frac{1}{10}$  of 42 km  0.42 km
- i) 105% of 10 litres   $1\frac{1}{5}$  of 10 litres  
 10.5 litres

a)

|   |    |    |
|---|----|----|
|   | 11 | 7  |
| 9 |    |    |
|   | 5  | 10 |

b)

|    |    |   |
|----|----|---|
| 10 | 3  |   |
| 5  |    |   |
|    | 11 | 4 |

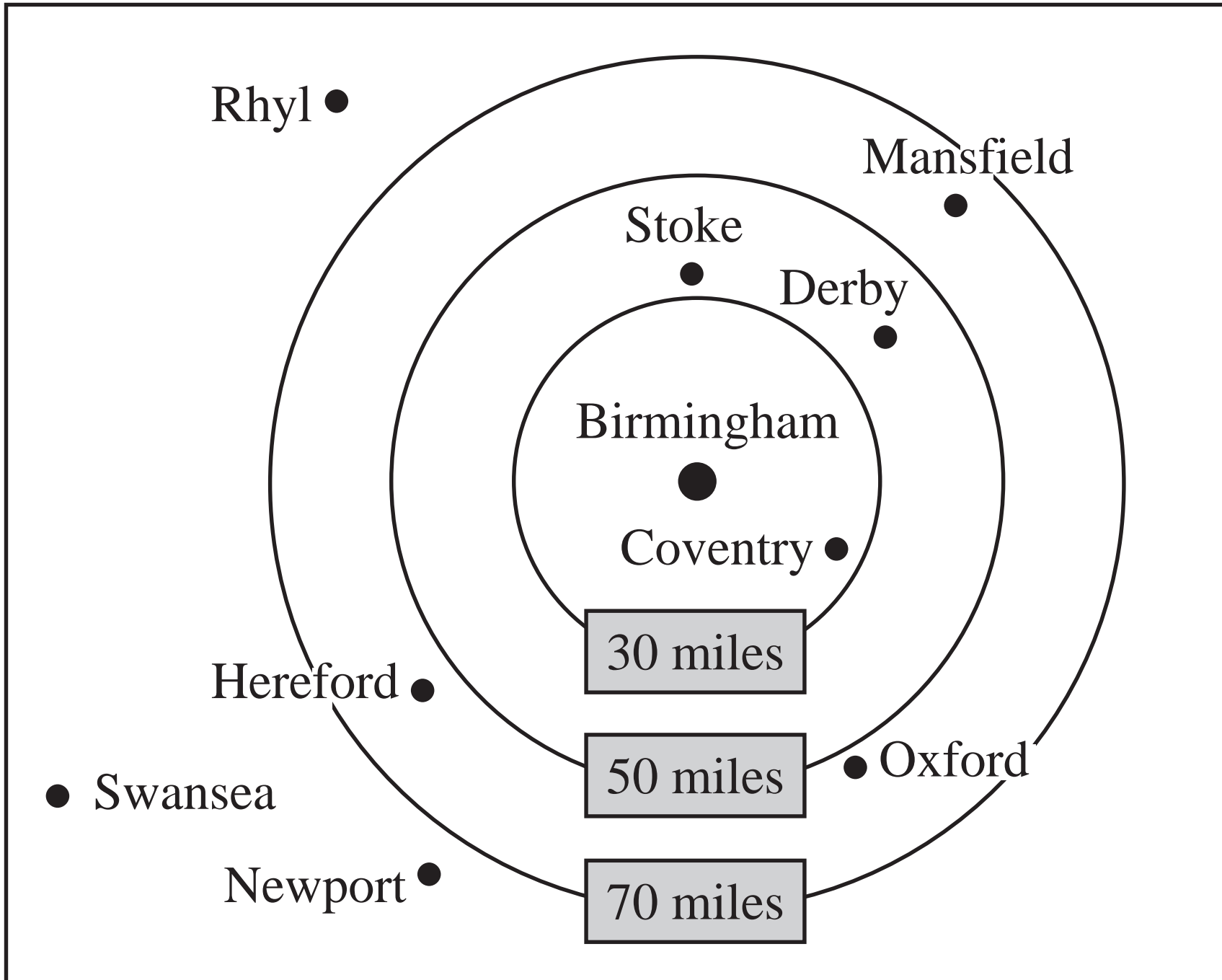
c)

|    |  |    |
|----|--|----|
| 14 |  | 12 |
|    |  |    |
| 10 |  | 8  |



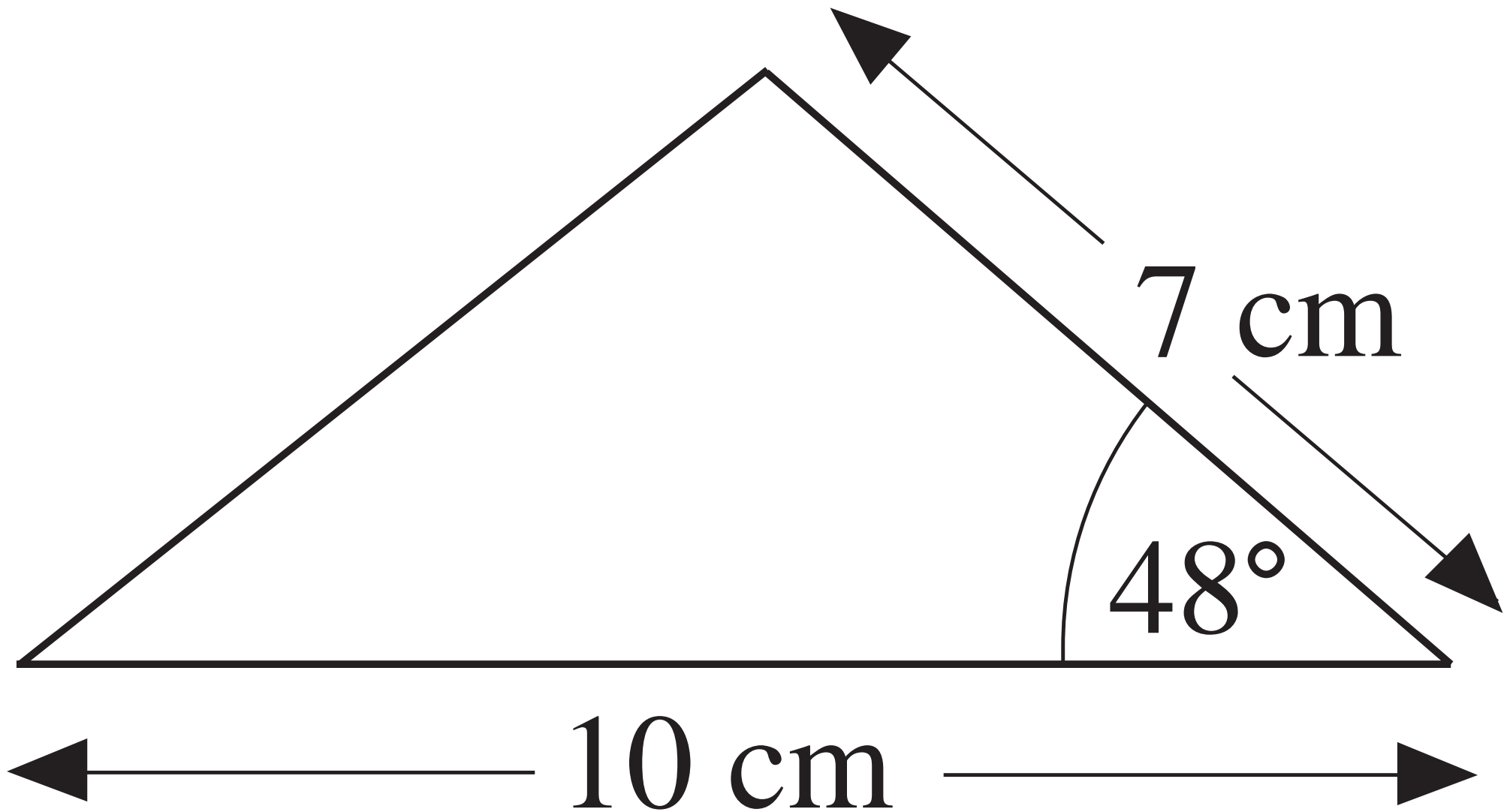
- a) i)  $143 \text{ m } 45 \text{ cm} = \boxed{\phantom{00000}} \text{ cm}$       ii)  $375 \text{ cm} = \boxed{\phantom{00000}} \text{ m}$
- iii)  $62 \text{ cm } 4 \text{ mm} = \boxed{\phantom{00000}} \text{ mm}$
- iv)  $816 \text{ mm} = \boxed{\phantom{00000}} \text{ cm} = \boxed{\phantom{00000}} \text{ m}$
- v)  $42 \text{ km } 60 \text{ m} = \boxed{\phantom{00000}} \text{ m}$       vi)  $4950 \text{ m} = \boxed{\phantom{00000}} \text{ km}$
- b) i)  $4 \text{ litres } 5 \text{ cl} = \boxed{\phantom{00000}} \text{ cl}$       ii)  $1230 \text{ cl} = \boxed{\phantom{00000}} \text{ l}$
- iii)  $3 \text{ cl } 6 \text{ ml} = \boxed{\phantom{00000}} \text{ ml}$
- iv)  $720 \text{ ml} = \boxed{\phantom{00000}} \text{ cl} = \boxed{\phantom{00000}} \text{ litres}$
- c) i)  $61 \text{ kg } 80 \text{ g} = \boxed{\phantom{00000}} \text{ g}$       ii)  $5200 \text{ g} = \boxed{\phantom{00000}} \text{ kg}$
- iii)  $4 \text{ t } 380 \text{ kg} = \boxed{\phantom{00000}} \text{ kg}$       iv)  $6025 \text{ kg} = \boxed{\phantom{00000}} \text{ t}$

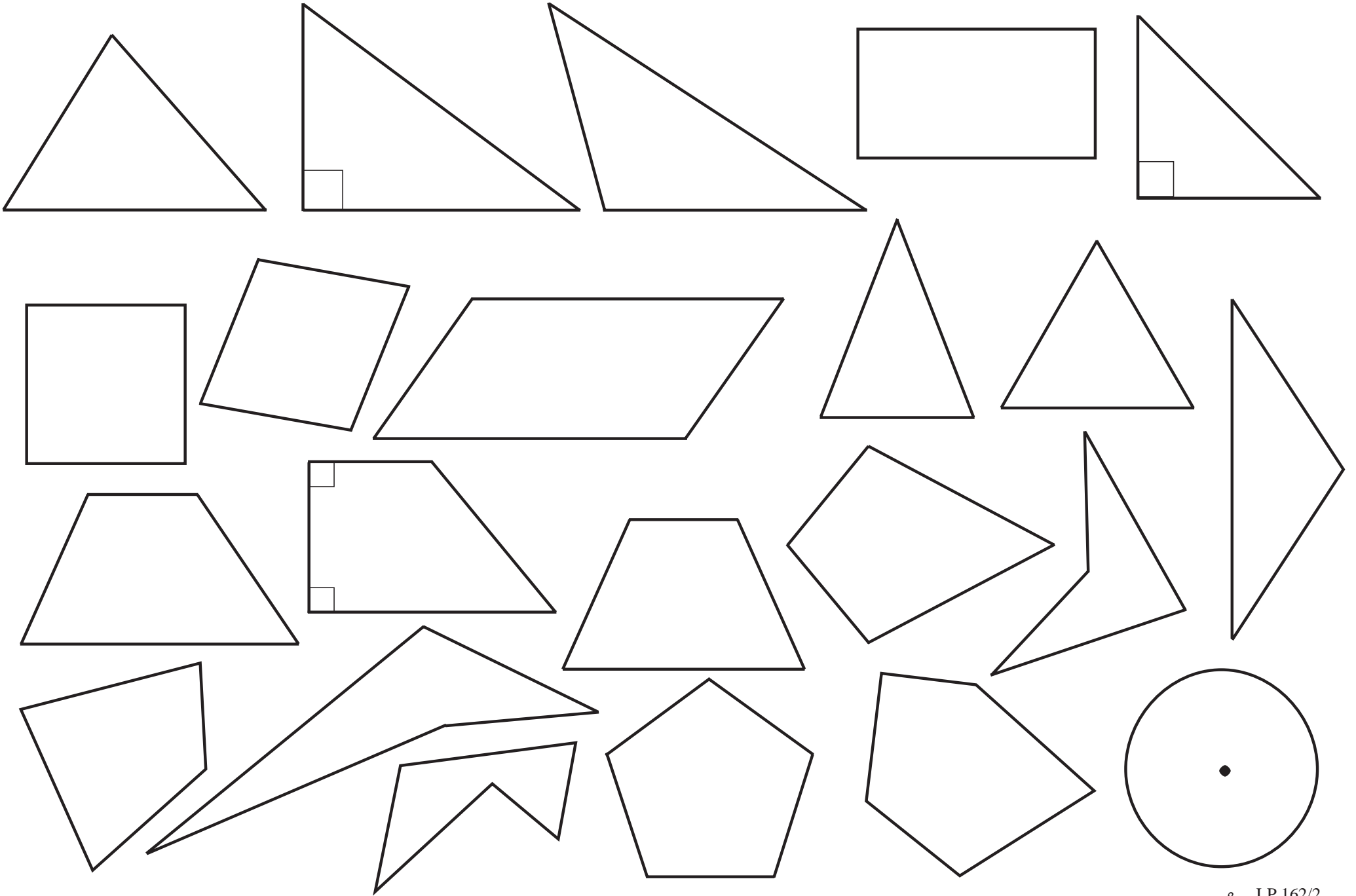
| Monday to Friday        | Saturday | Sunday           |
|-------------------------|----------|------------------|
| 9 am<br>2 pm<br>6.30 pm | 11.30 am | No<br>collection |

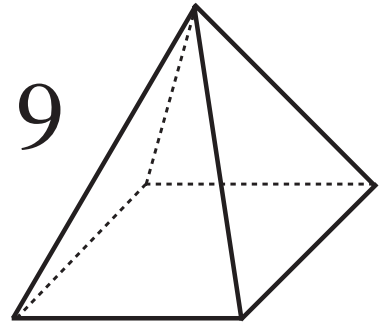
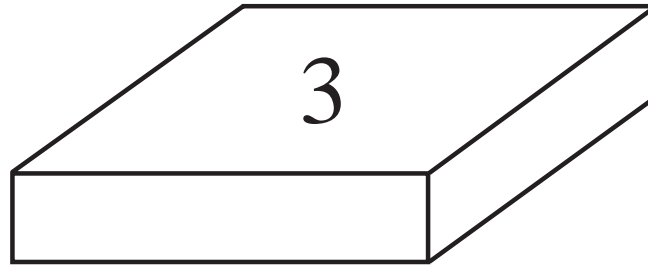
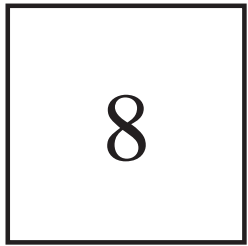
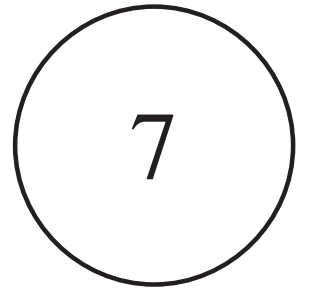
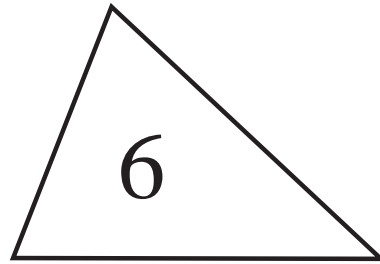
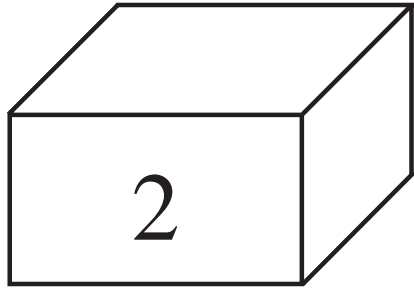


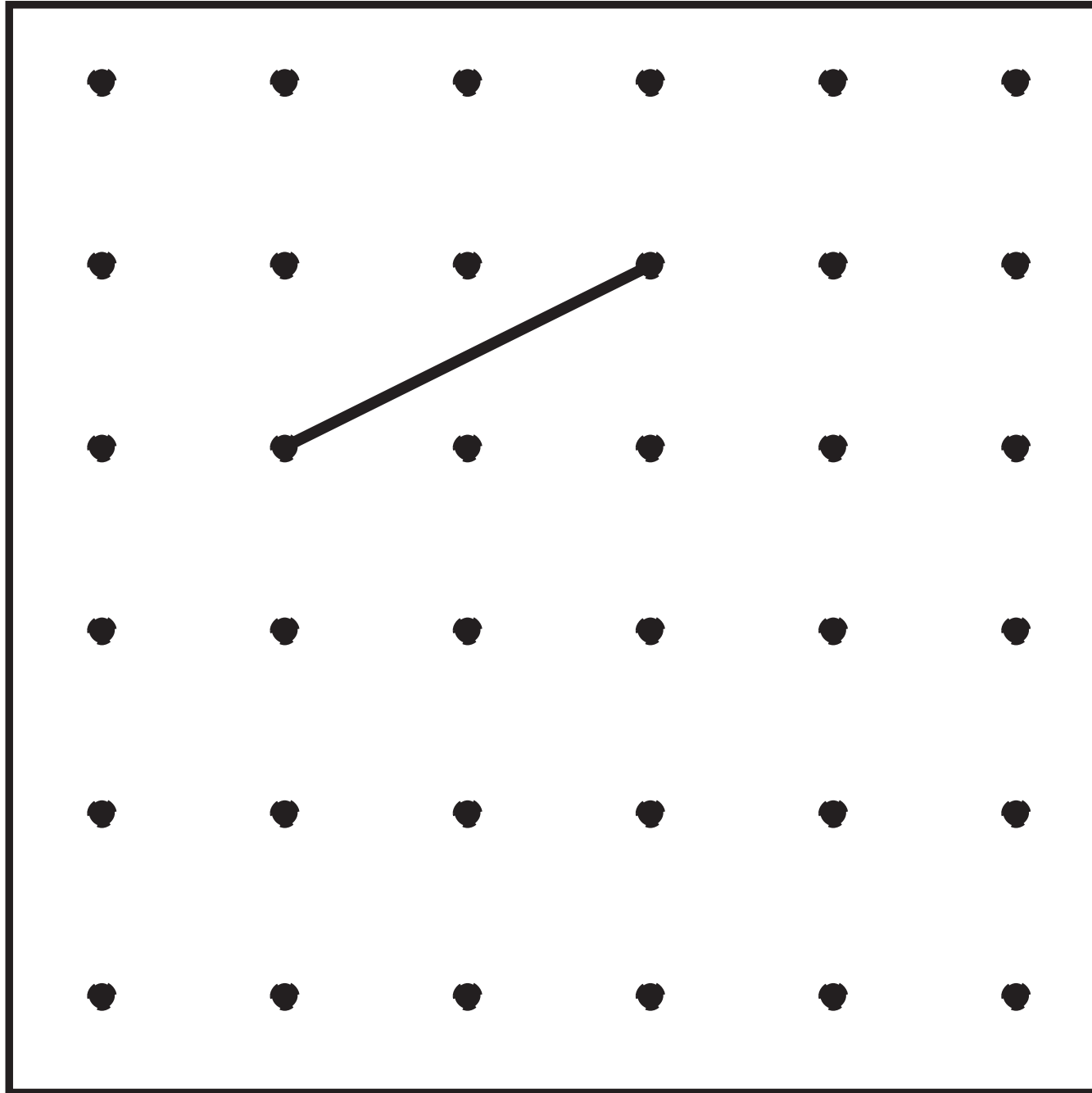
# Car Park Charges

| Time         | Charge |
|--------------|--------|
| Up to 1 hour | 20 p   |
| 1 to 2 hours | 50 p   |
| 2 to 3 hours | £1.00  |
| 3 to 4 hours | £1.70  |
| Over 4 hours | £5.00  |

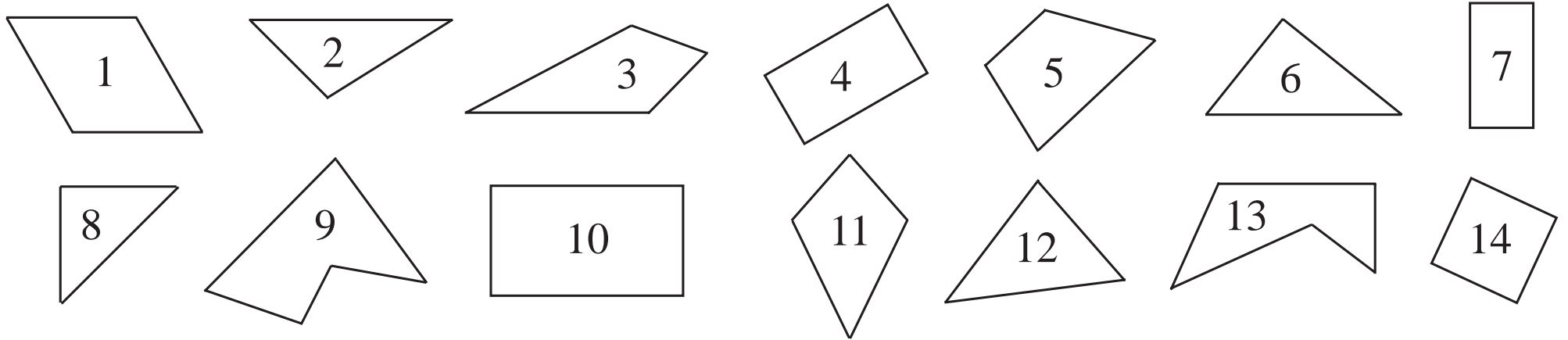












Triangles

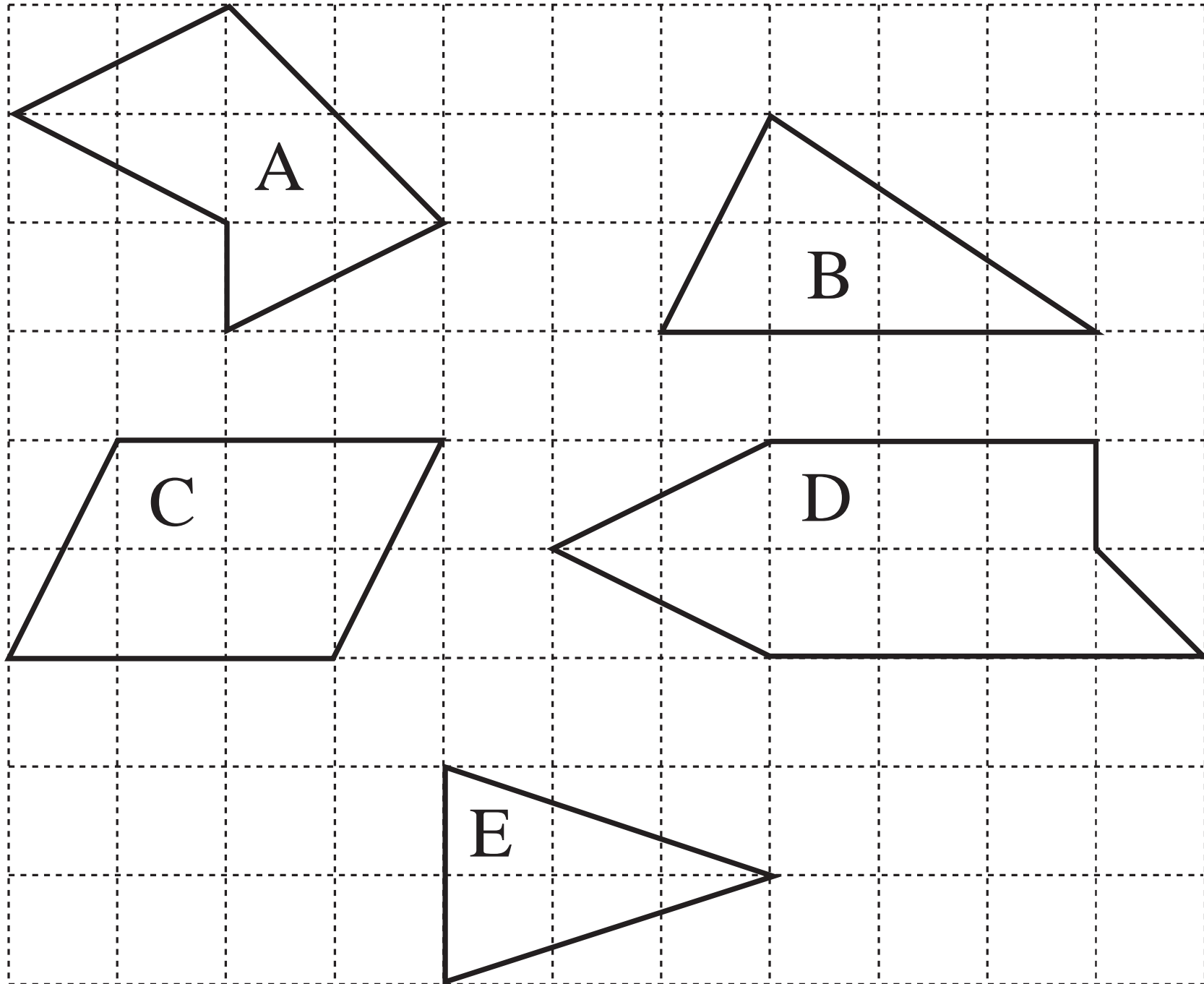
Quadrilaterals

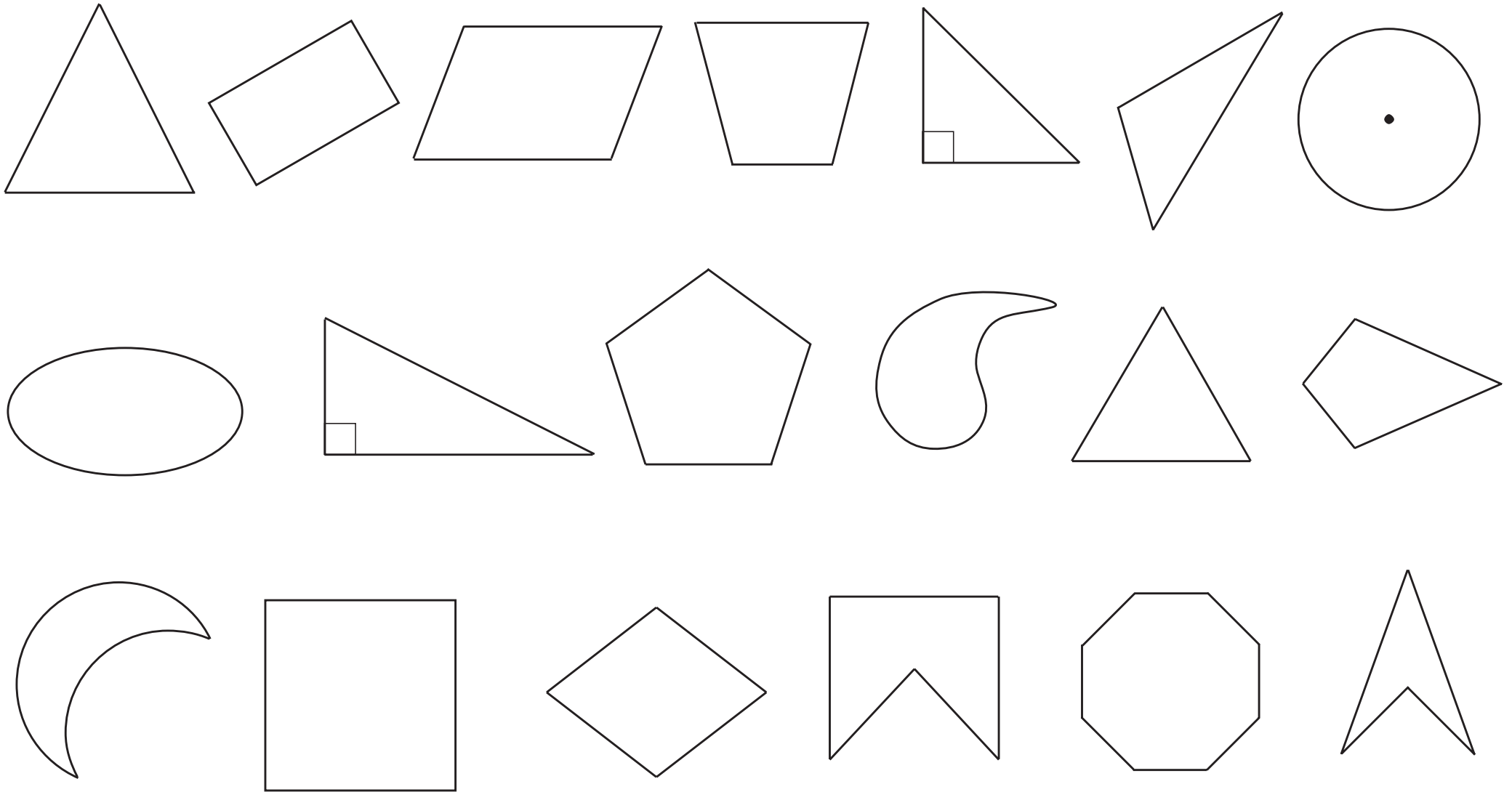
Has at least 1 right angle

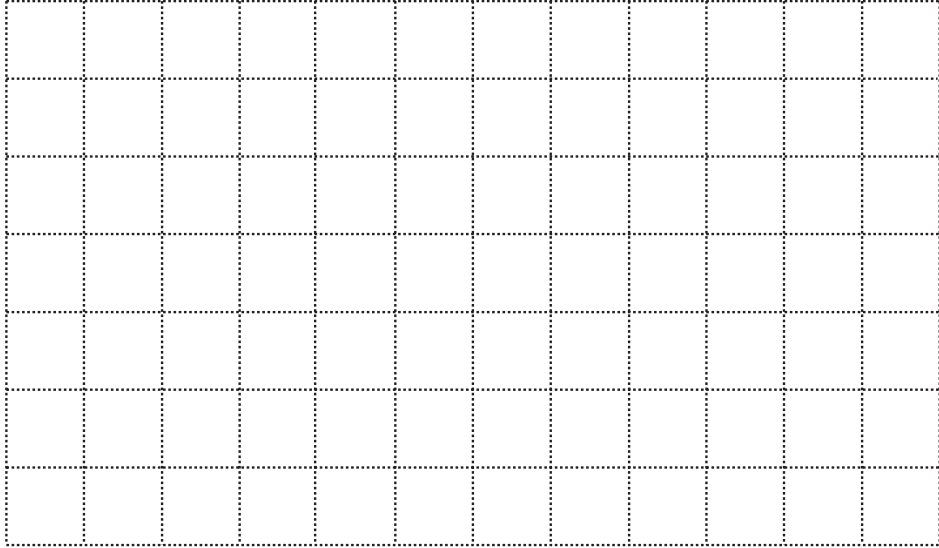
- a) All rectangles are quadrilaterals.
- b) All quadrilaterals are rectangles.
- c) Every quadrilateral is a rectangle but not every rectangle is a quadrilateral.
- d) The diagonals of a rectangle are equal in length.
- e) The adjacent sides of any rectangle are equal to each other.
- f) The opposite sides of any rectangle are equal and parallel to each other.
- g) Every trapezium has only 1 pair of parallel sides.
- h) Every quadrilateral which has parallel sides is a trapezium.
- i) All quadrilaterals with equal angles are rectangles.
- j) There is a trapezium with equal sides which is not a rhombus.

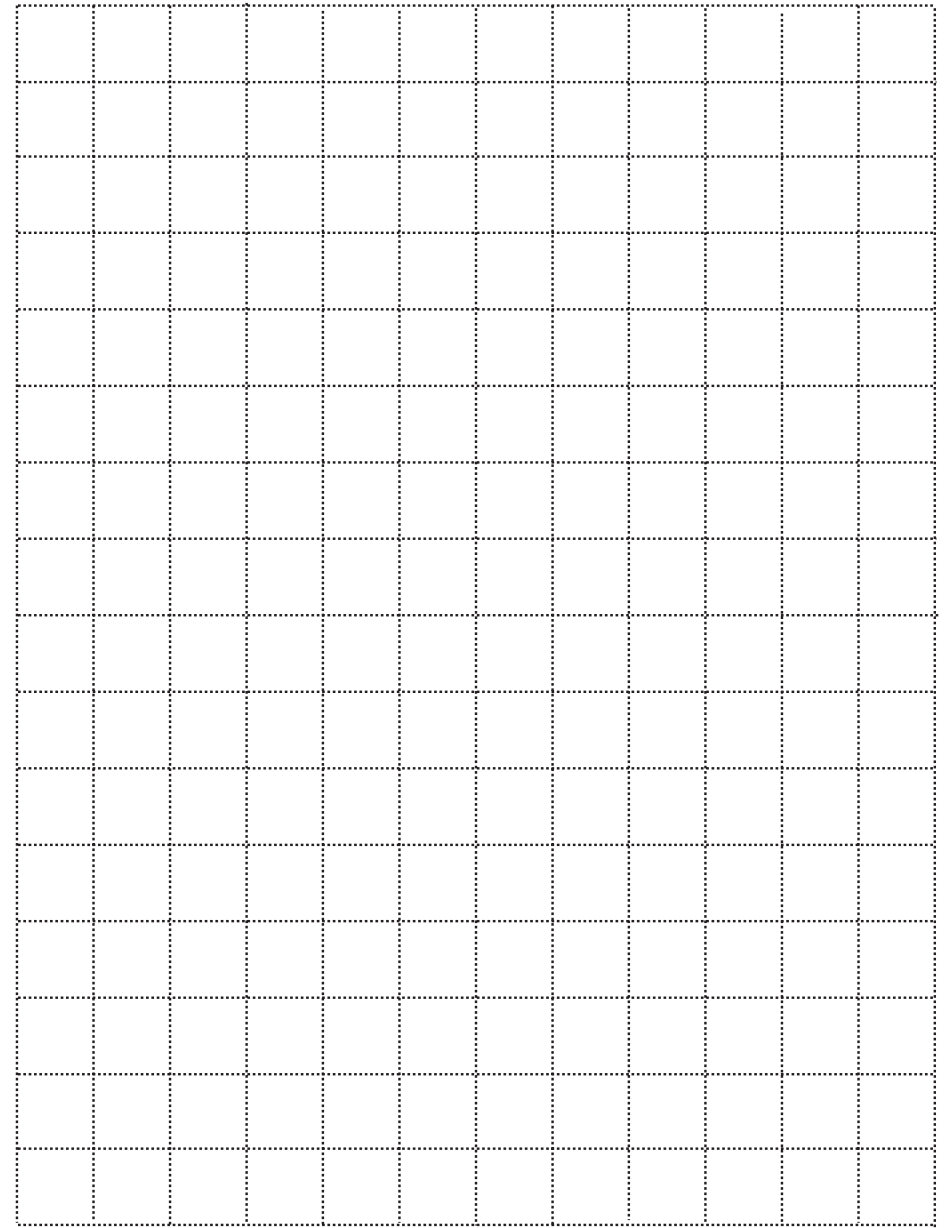
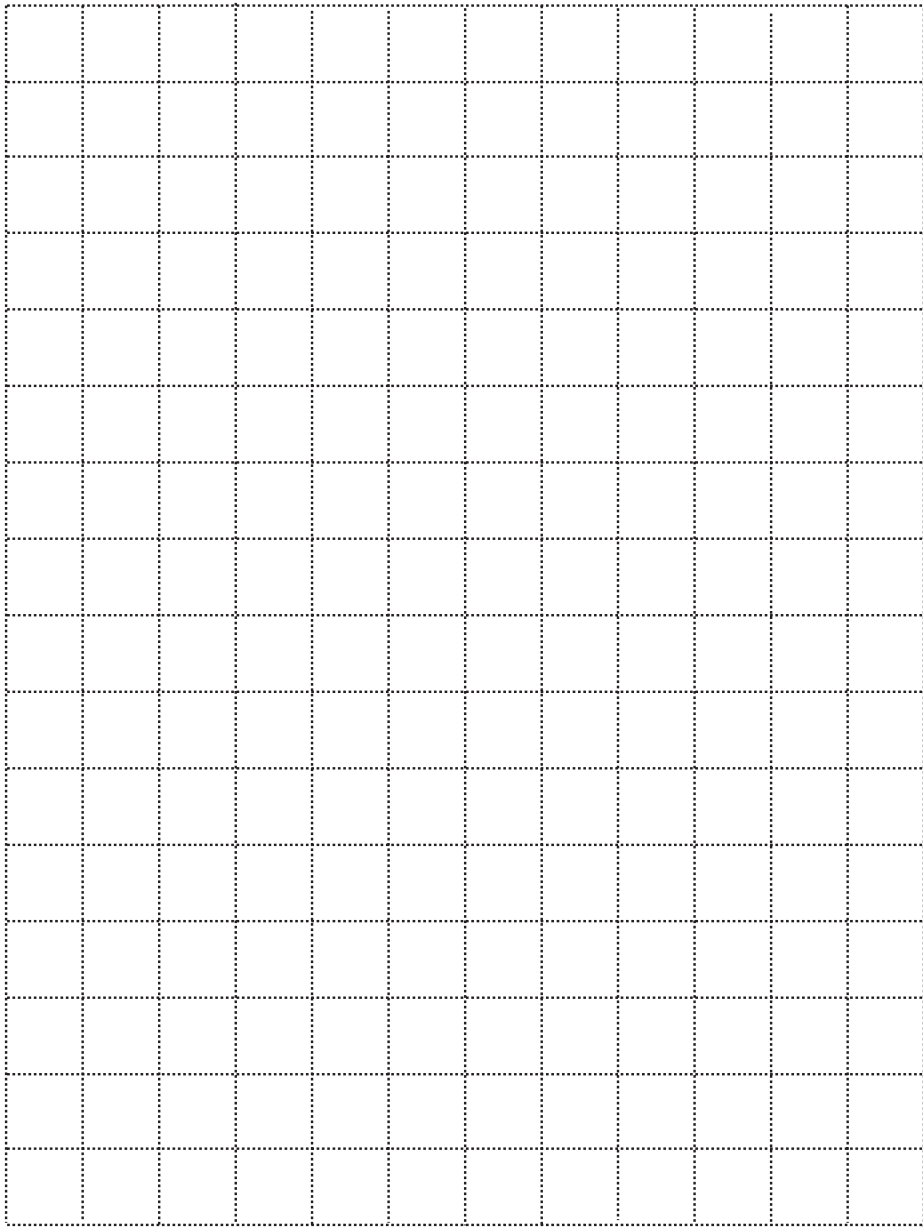
*True:* .....

*False:* .....

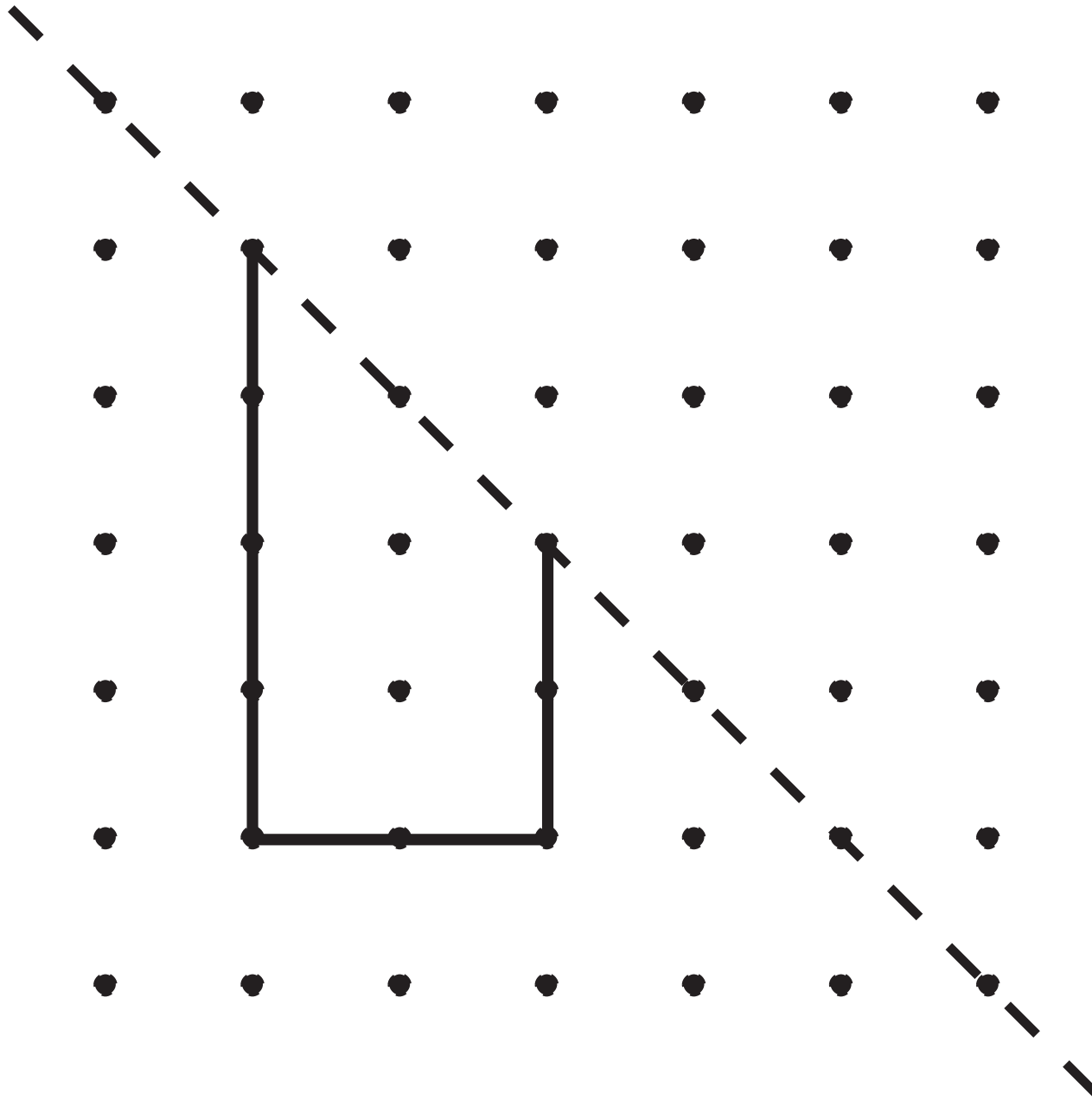




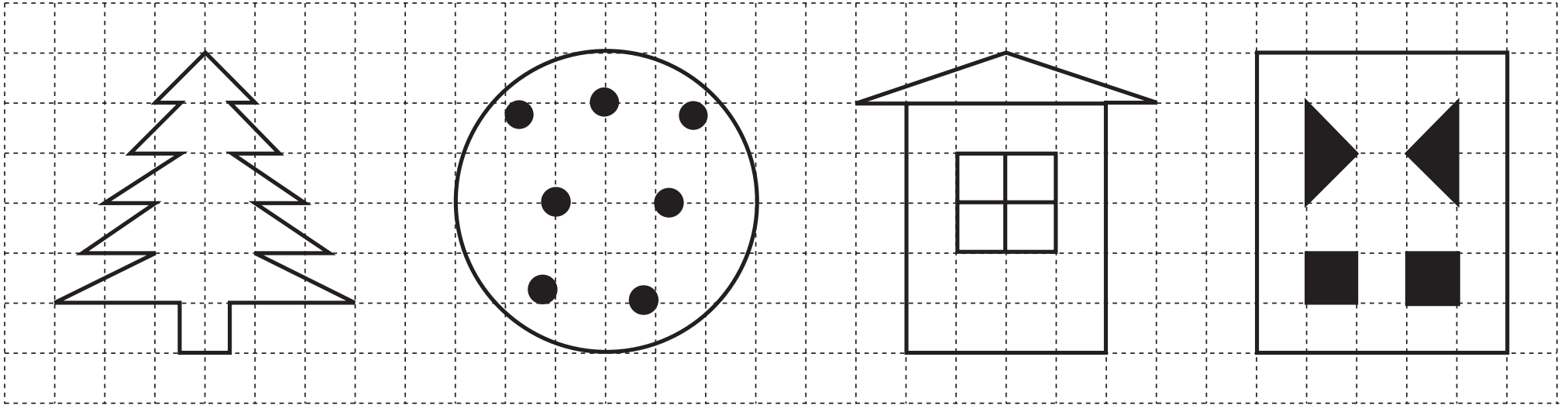




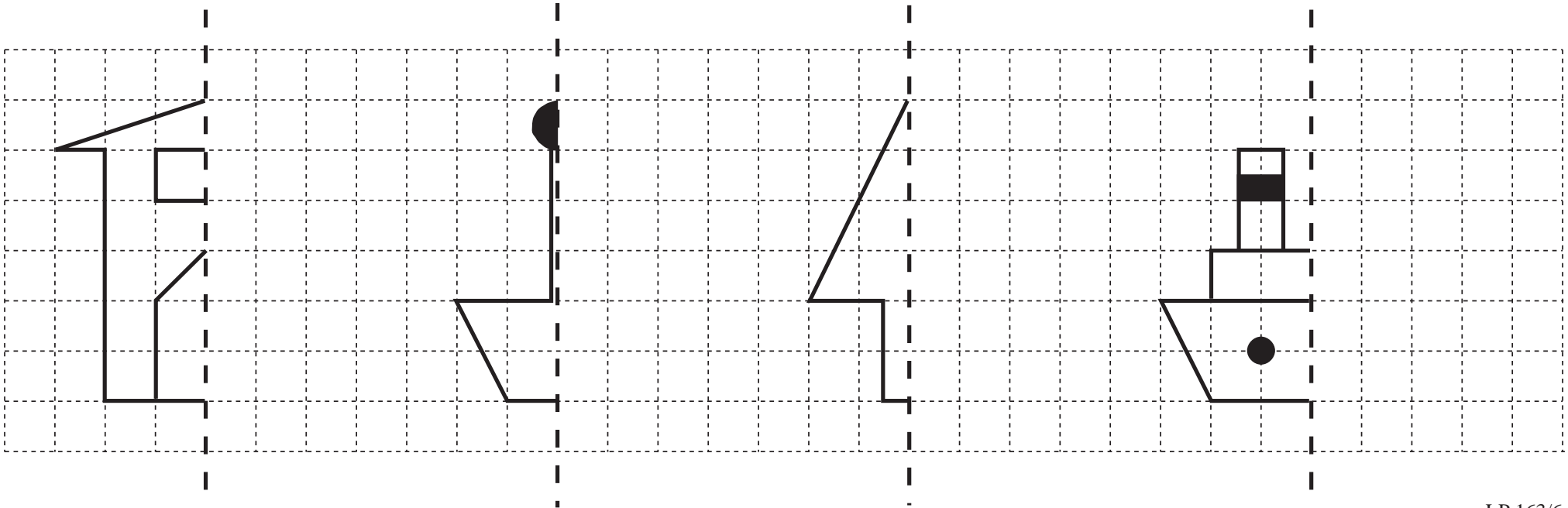
1 grid per pupil



*mirror line*

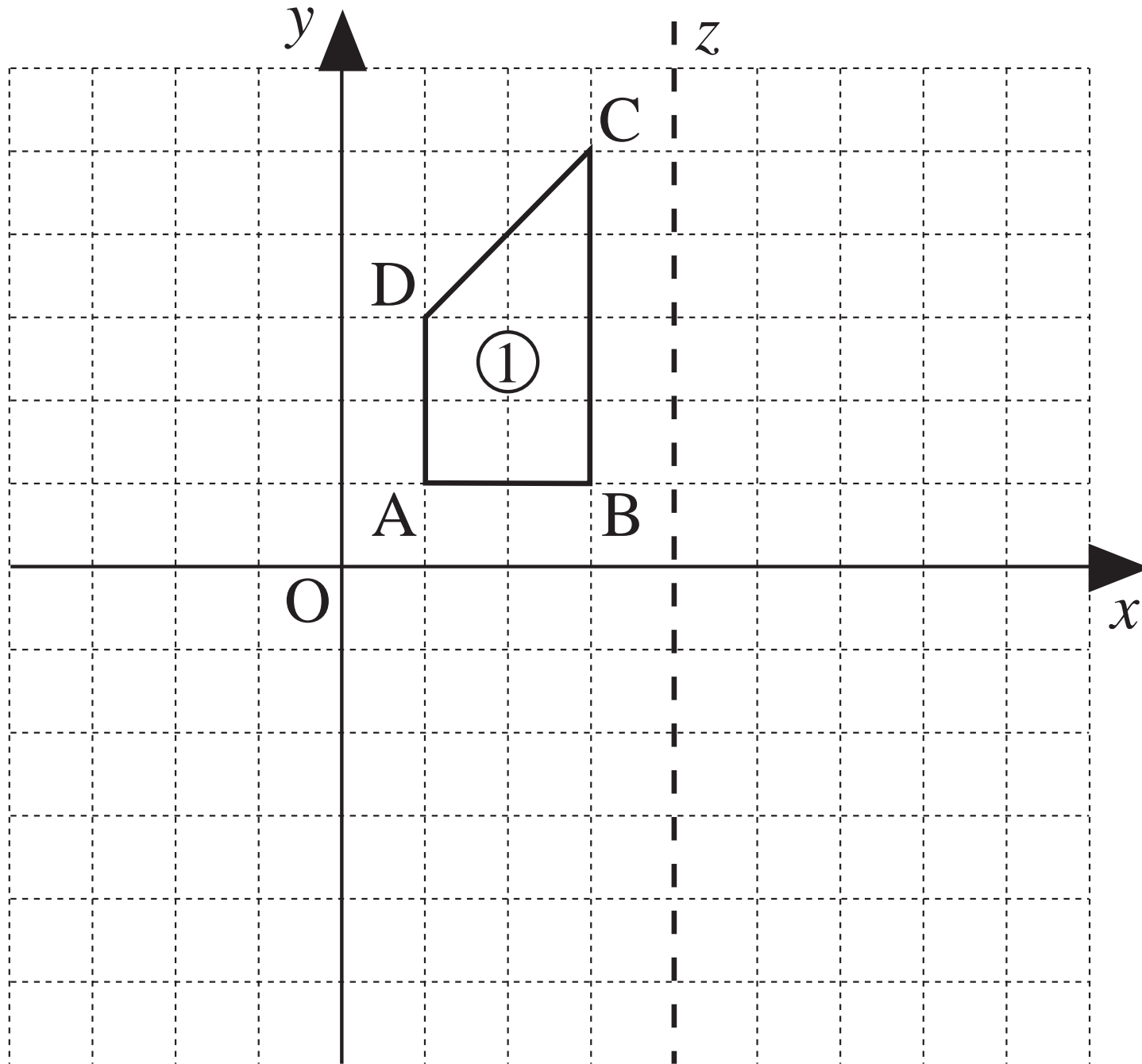


LP 163/5



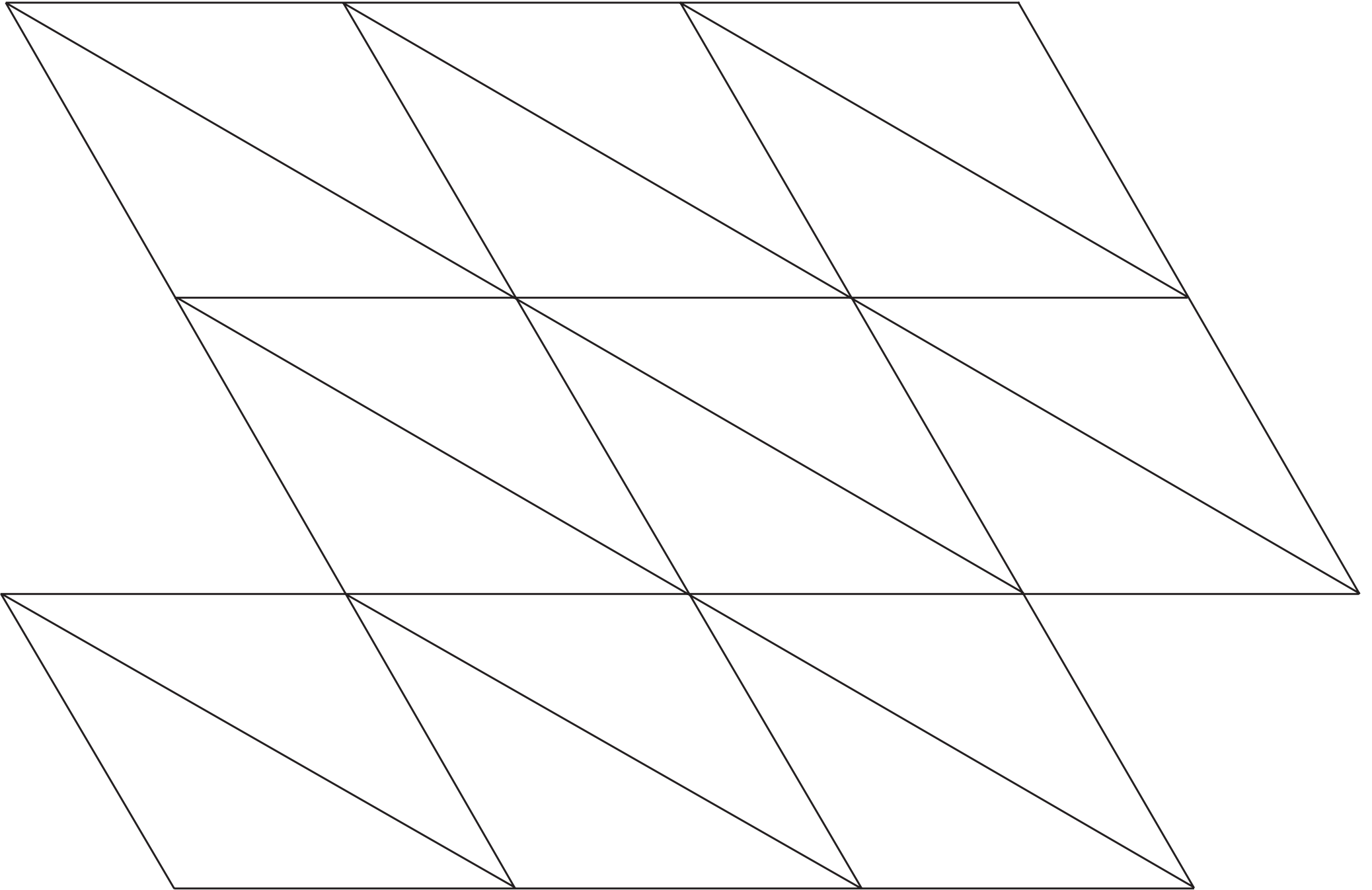
LP 163/6

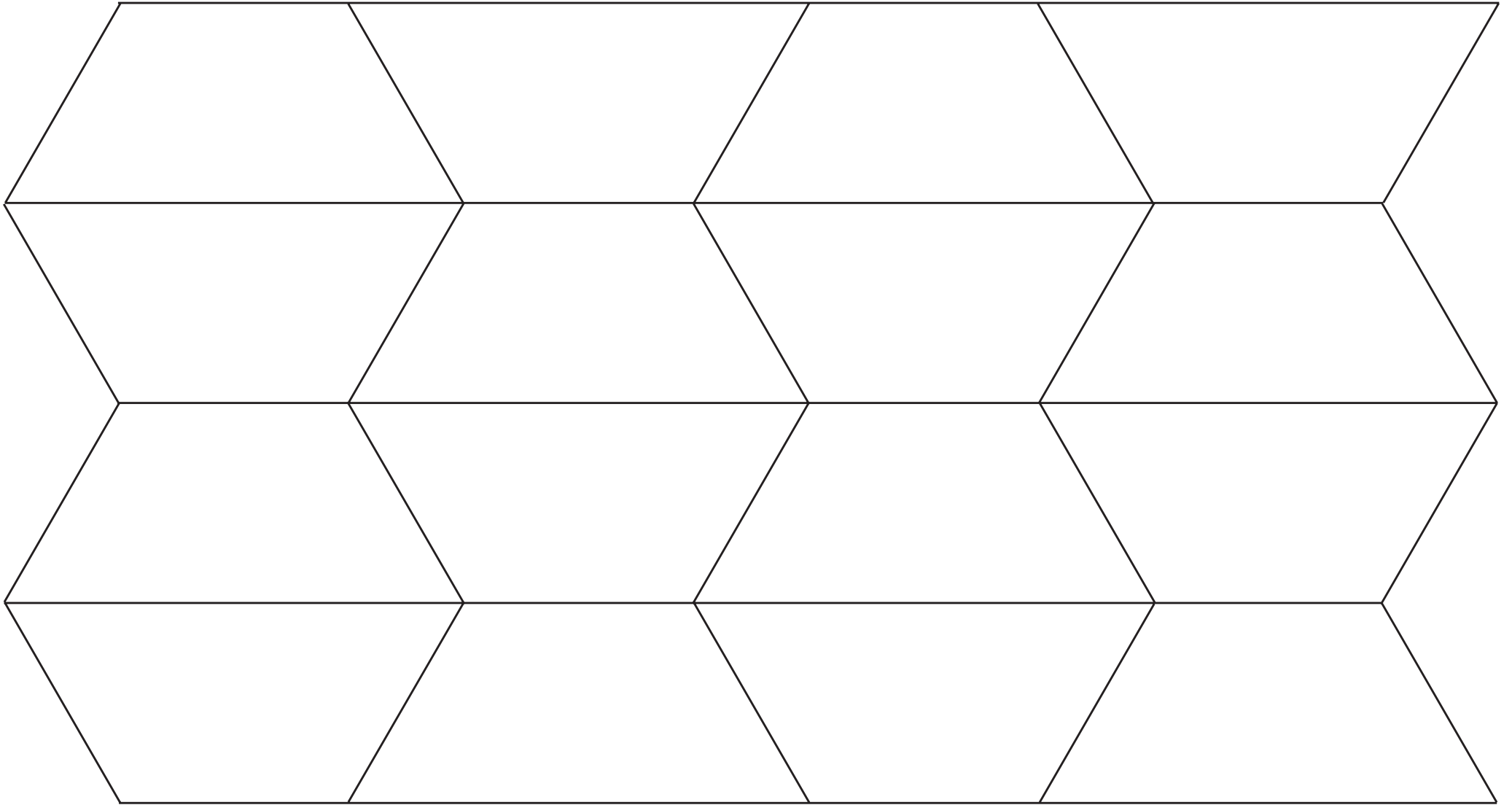


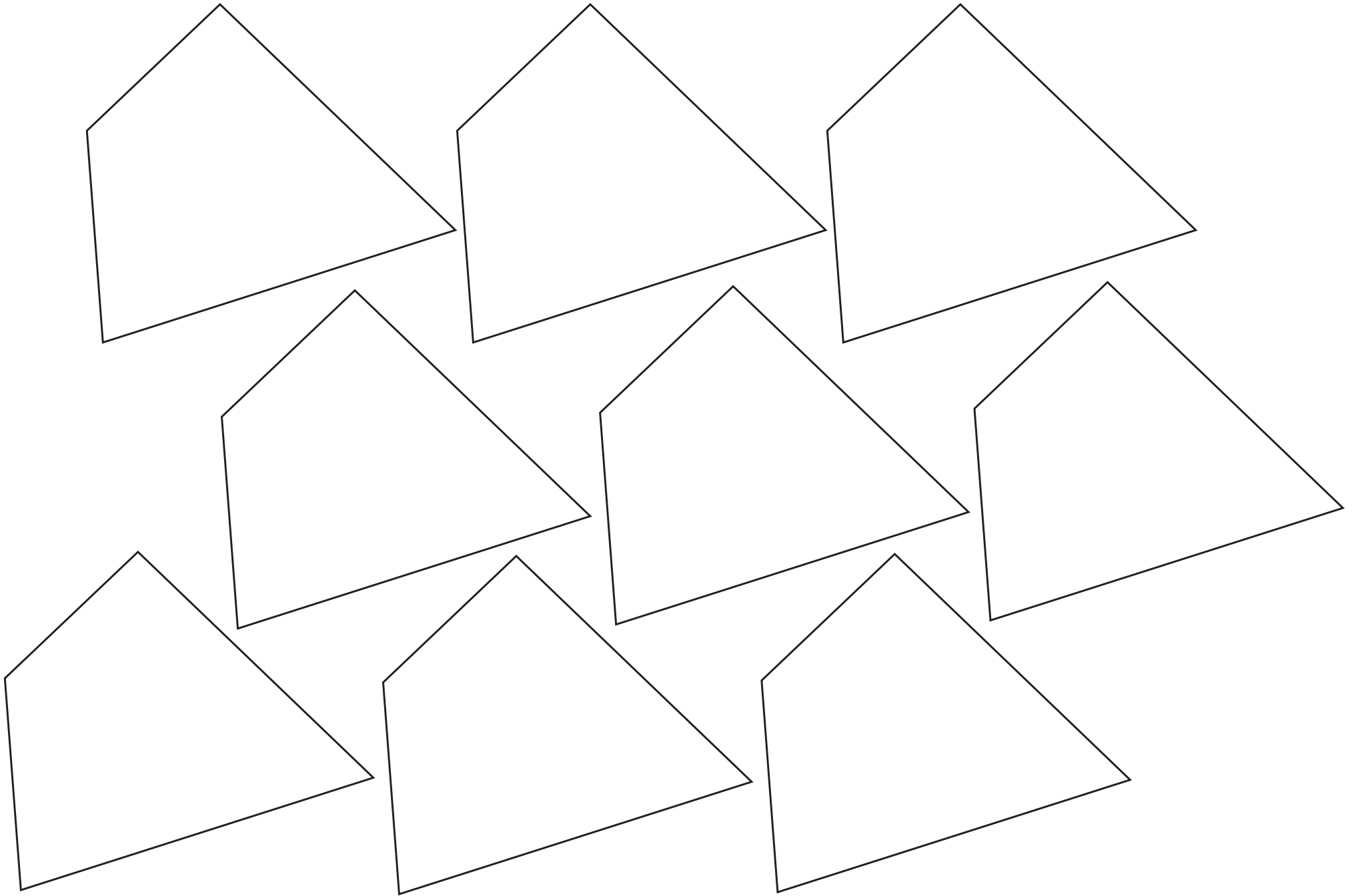




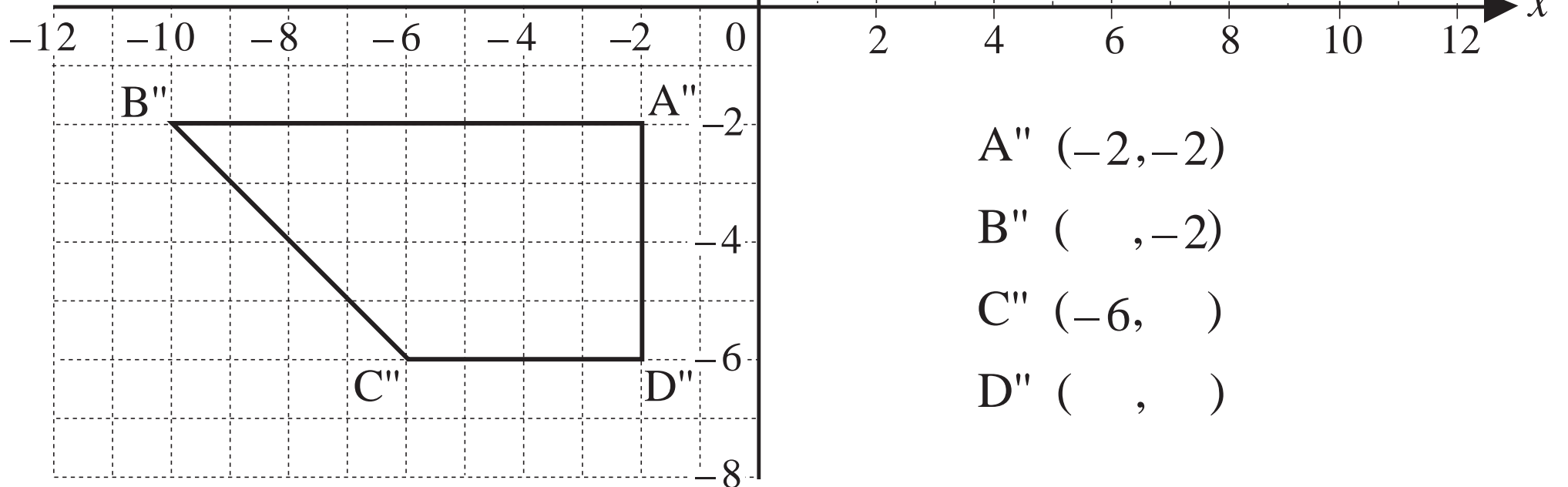
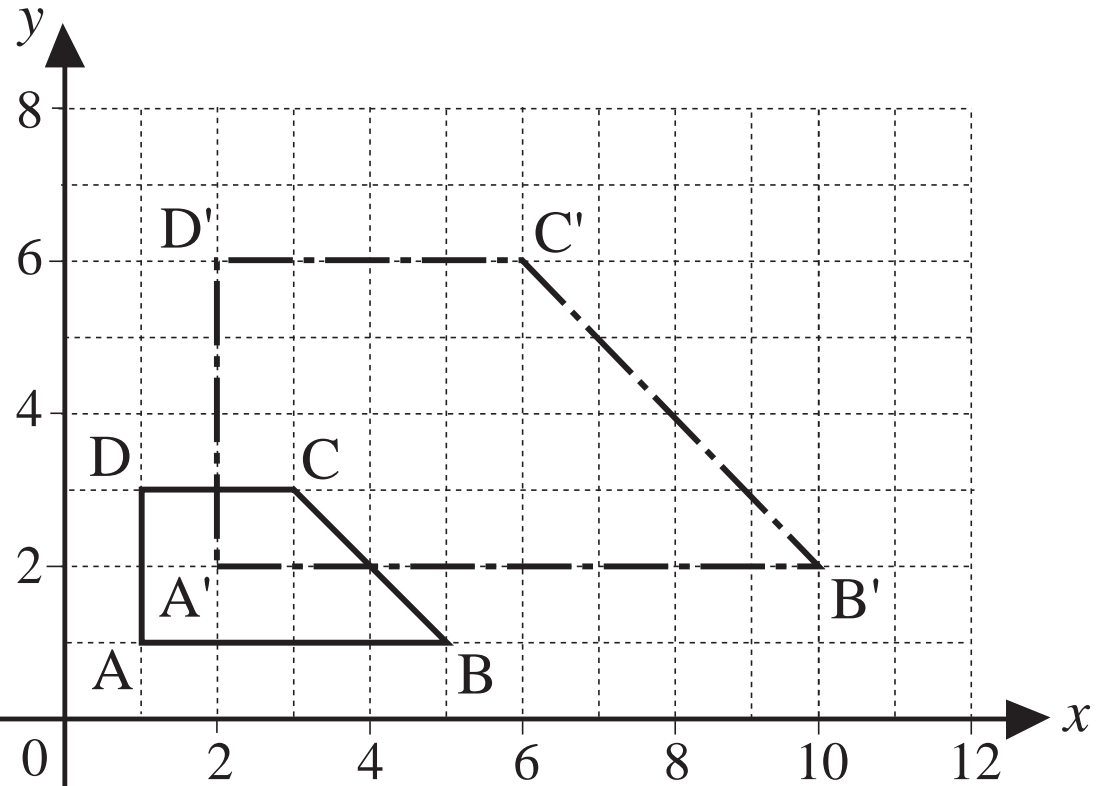
|  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |



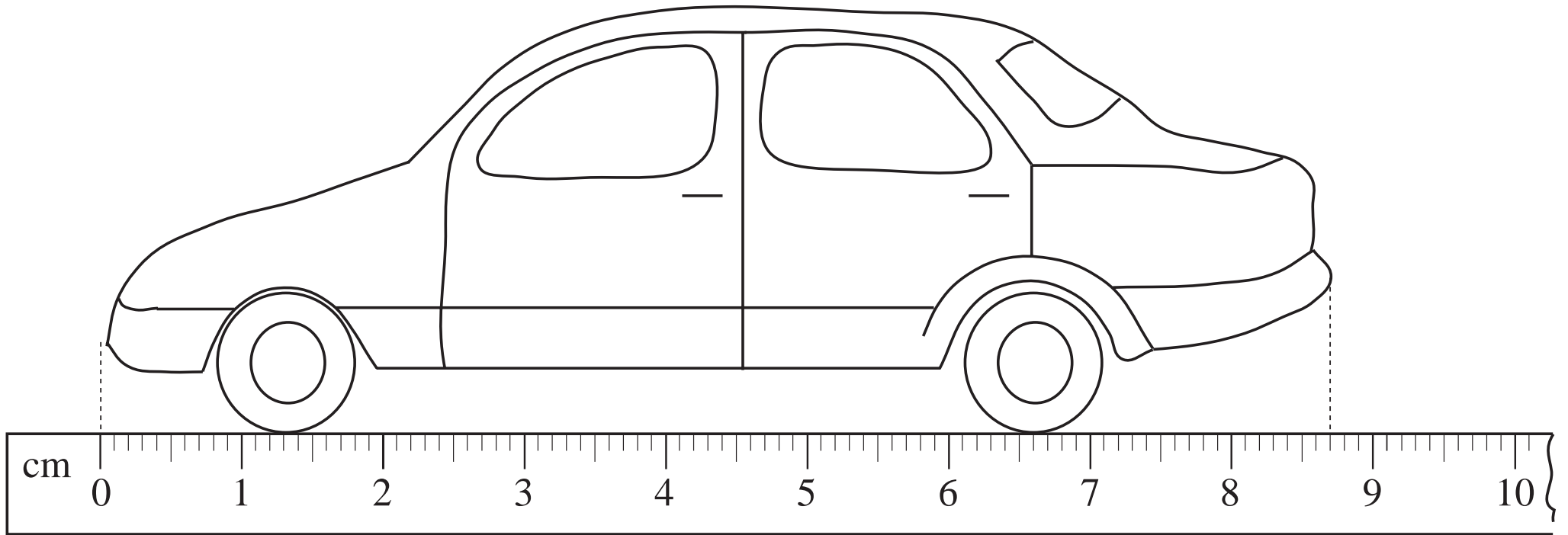


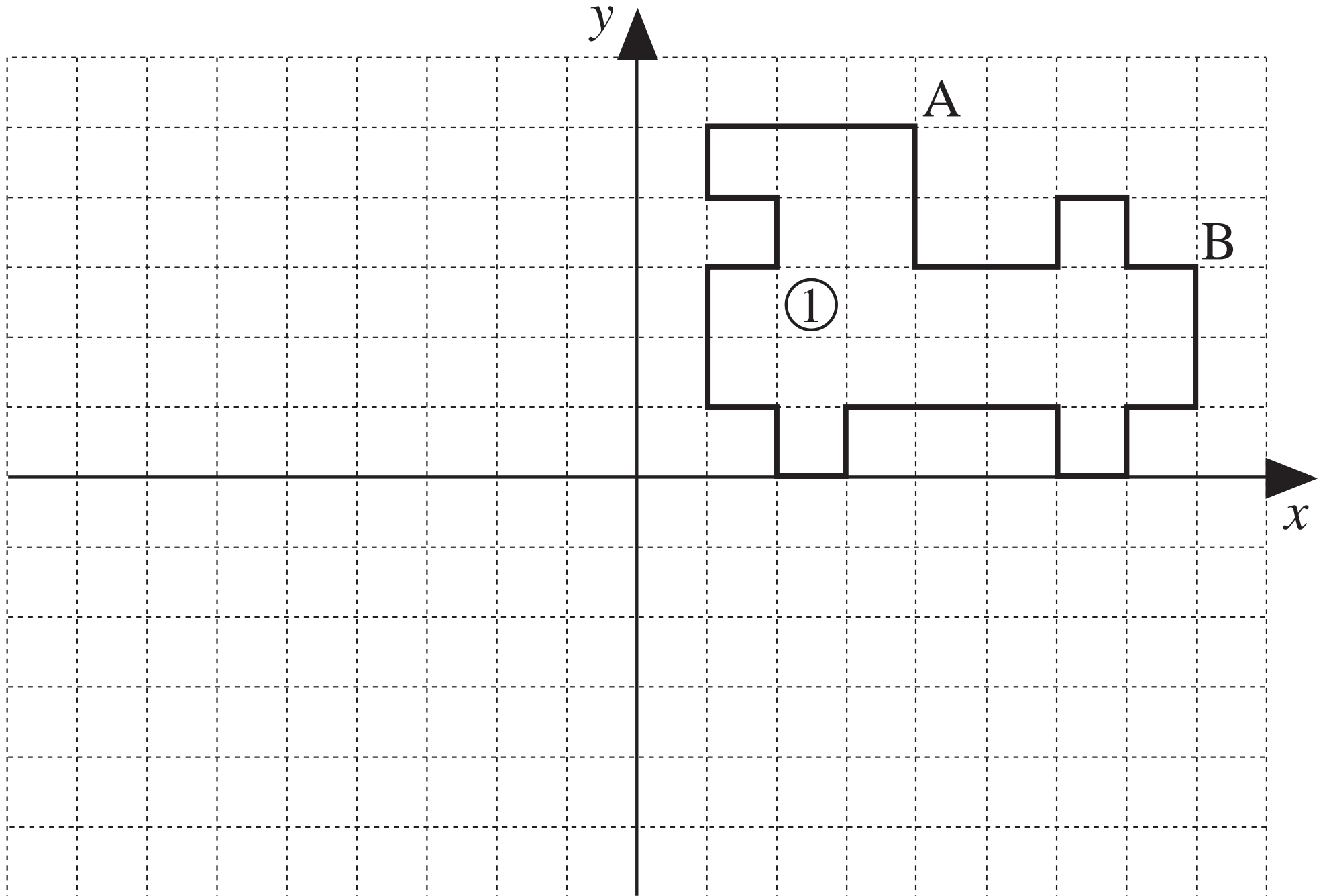


|                       |                        |
|-----------------------|------------------------|
| $A ( 1 , 1 )$         | $A' ( 2 , \quad )$     |
| $B ( 5 , \quad )$     | $B' ( 10 , \quad )$    |
| $C ( \quad , 3 )$     | $C' ( \quad , 6 )$     |
| $D ( \quad , \quad )$ | $D' ( \quad , \quad )$ |

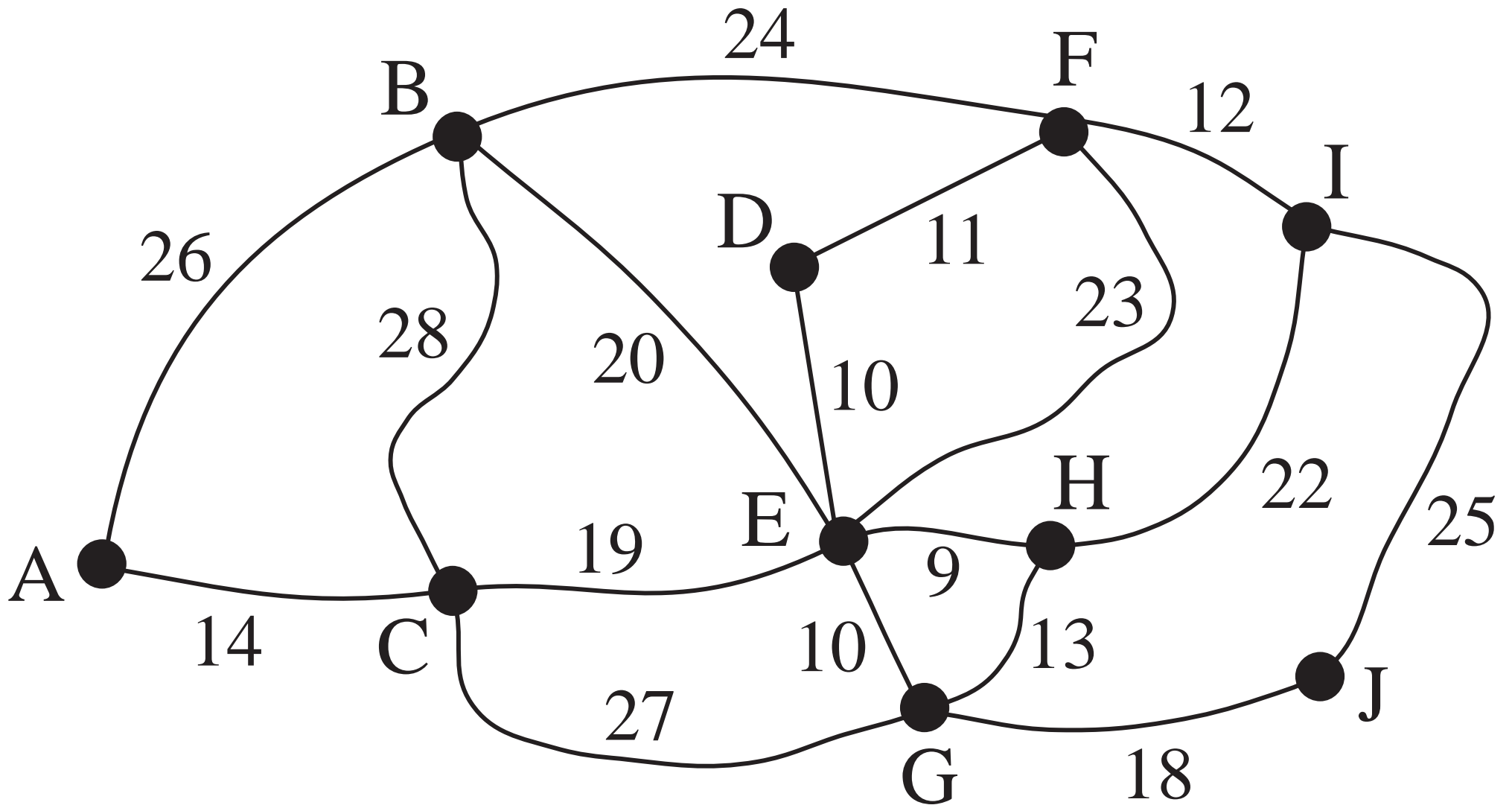


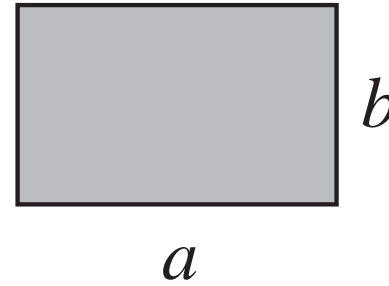
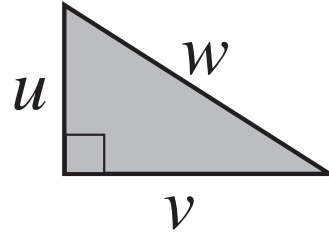
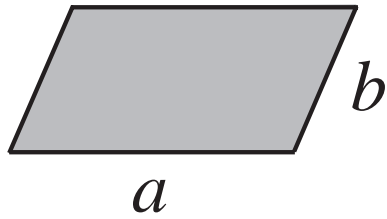
|                         |
|-------------------------|
| $A'' (-2, -2)$          |
| $B'' ( \quad , -2)$     |
| $C'' (-6, \quad )$      |
| $D'' ( \quad , \quad )$ |











$$P = u + v + w$$

$$A = \frac{e \times e}{2}$$

$$A = a \times b$$

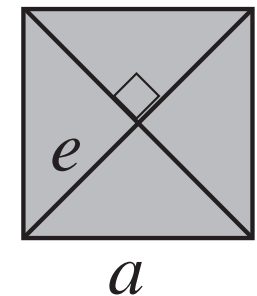
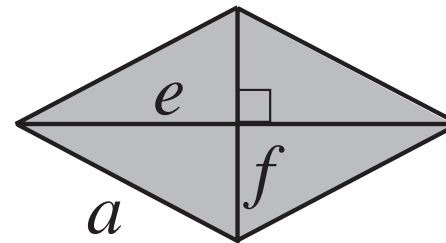
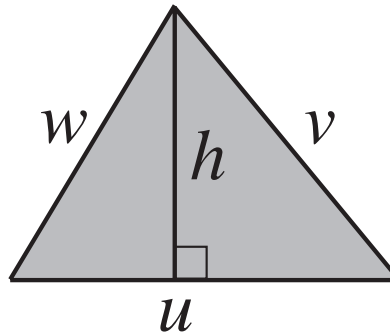
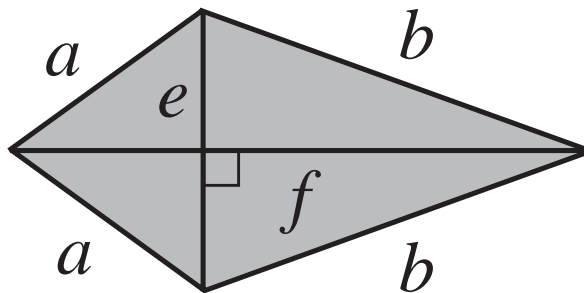
$$P = 2 \times a + 2 \times b$$

$$A = \frac{u \times v}{2}$$

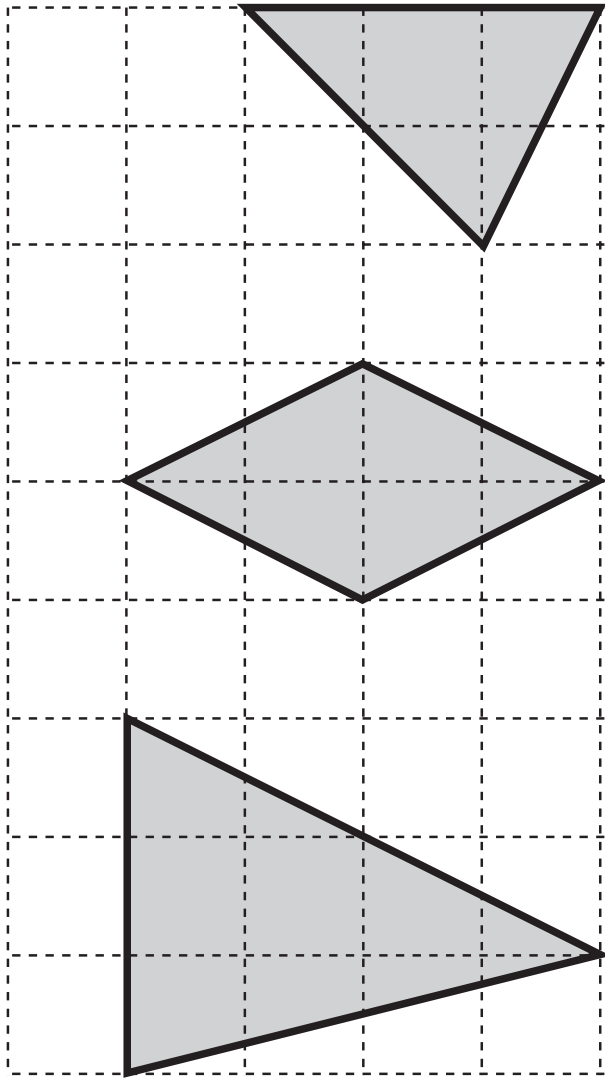
$$A = \frac{e \times f}{2}$$

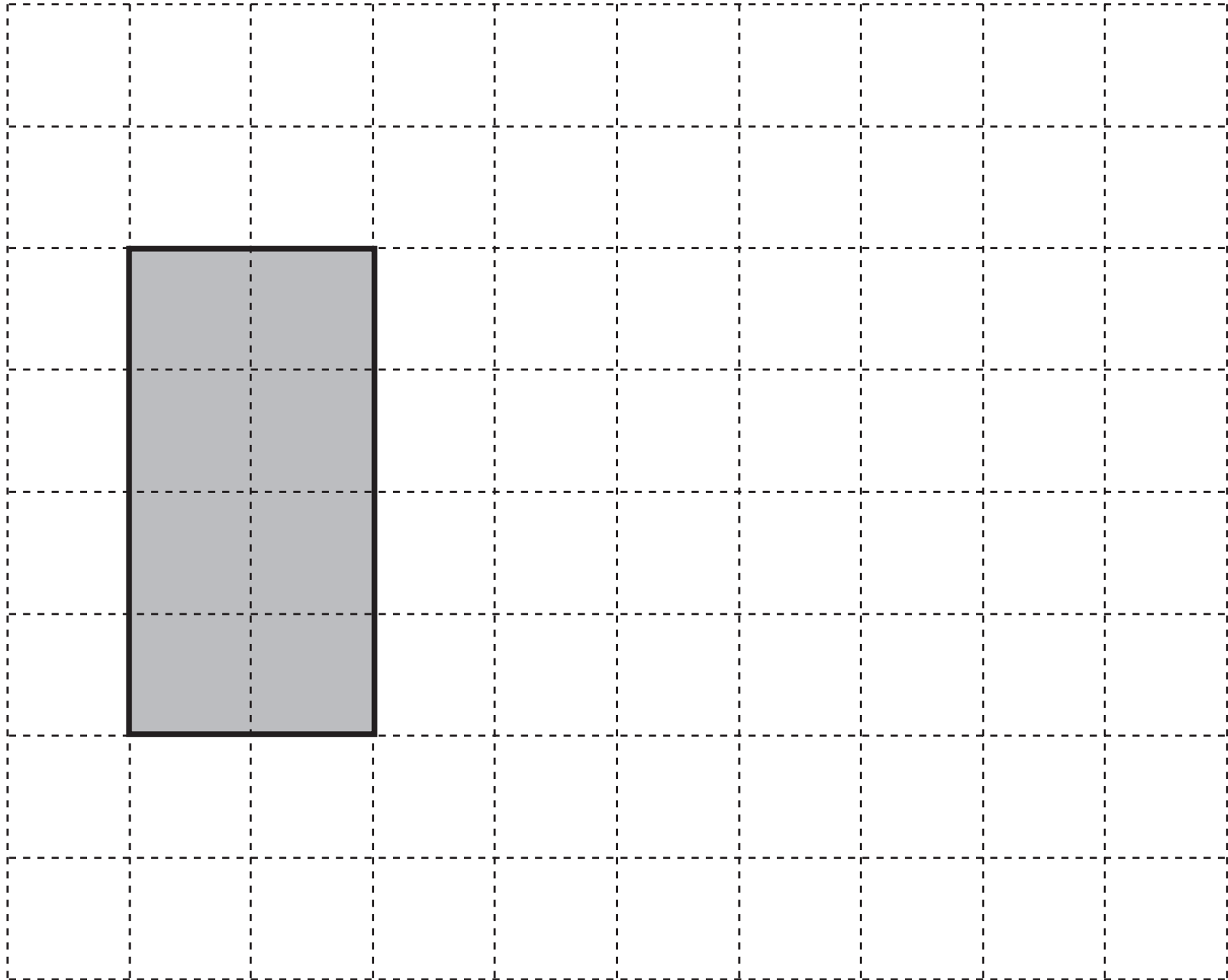
$$P = 4 \times a$$

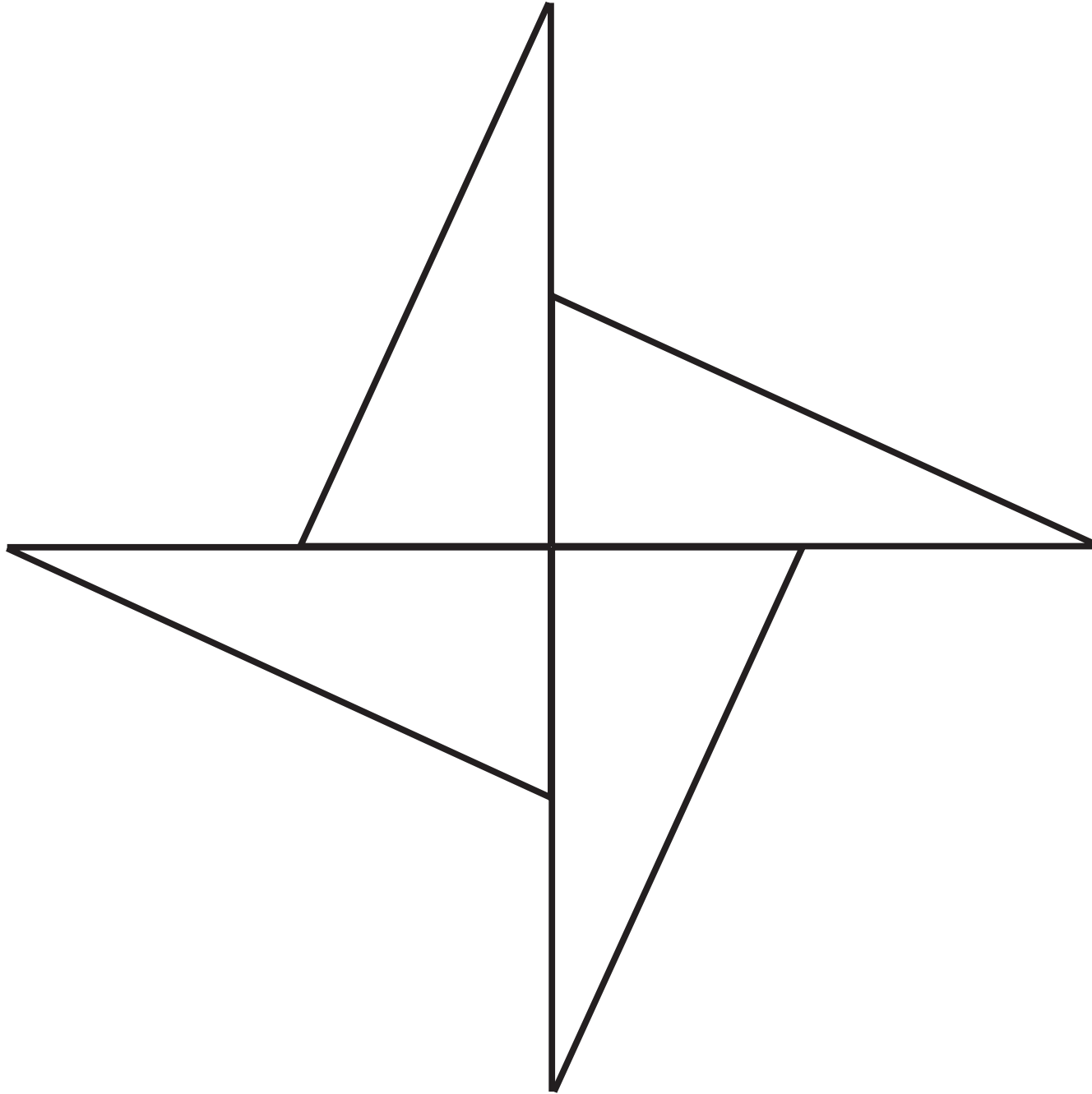
$$A = \frac{u \times h}{2}$$

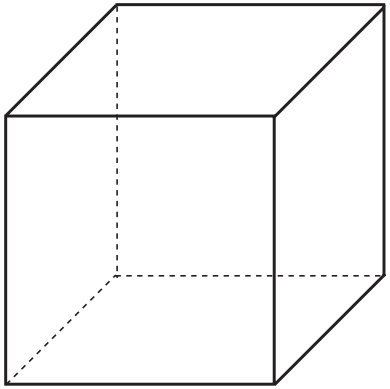


$$A = a \times a$$

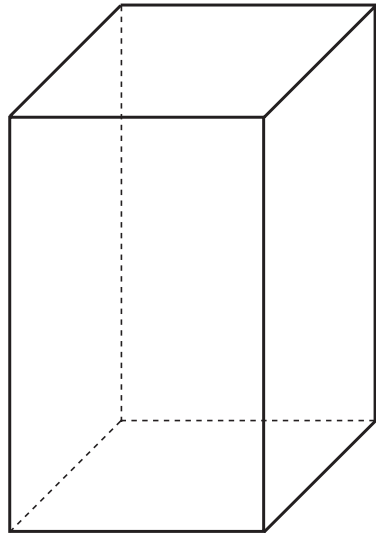




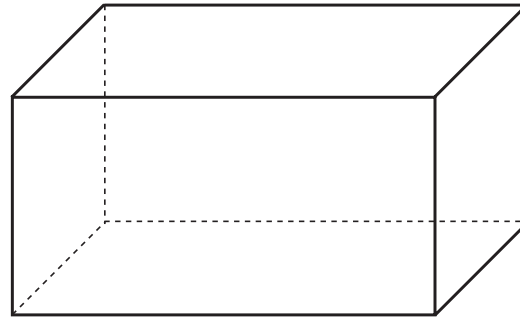




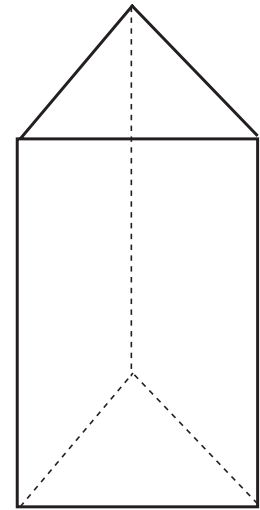
1



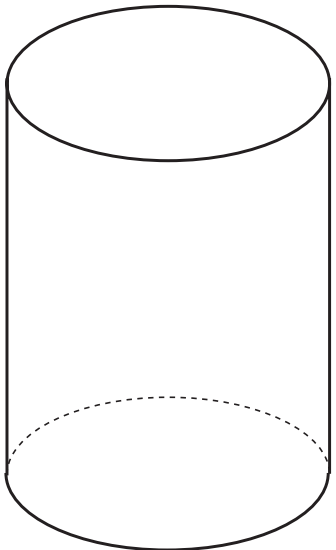
2



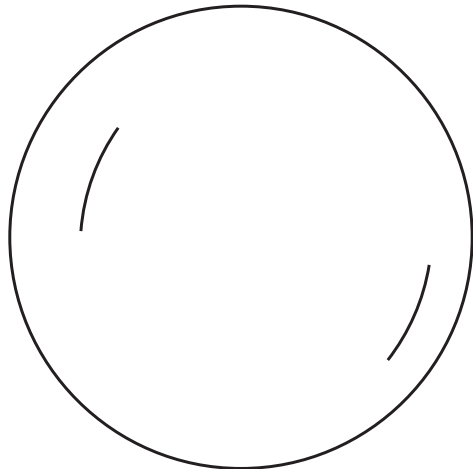
3



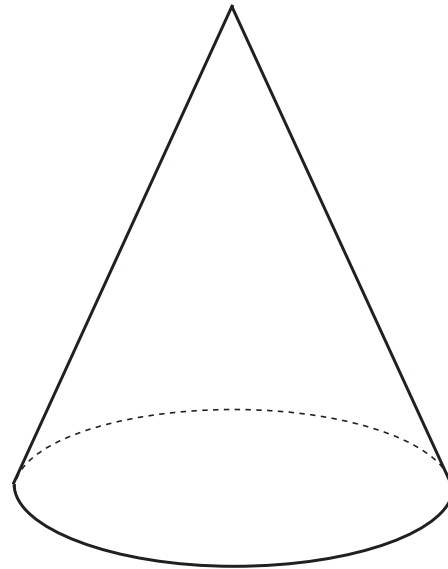
4



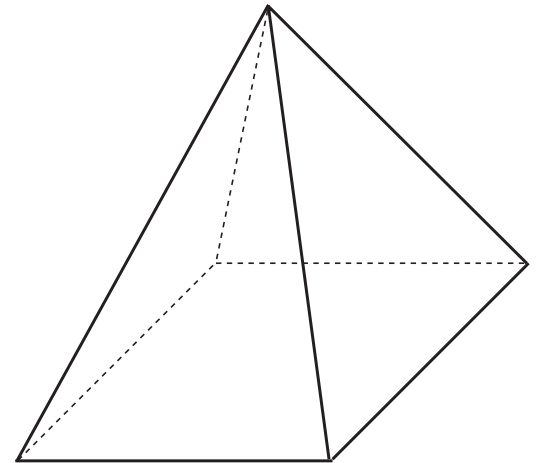
5



6



7



8

# Polyhedra

①

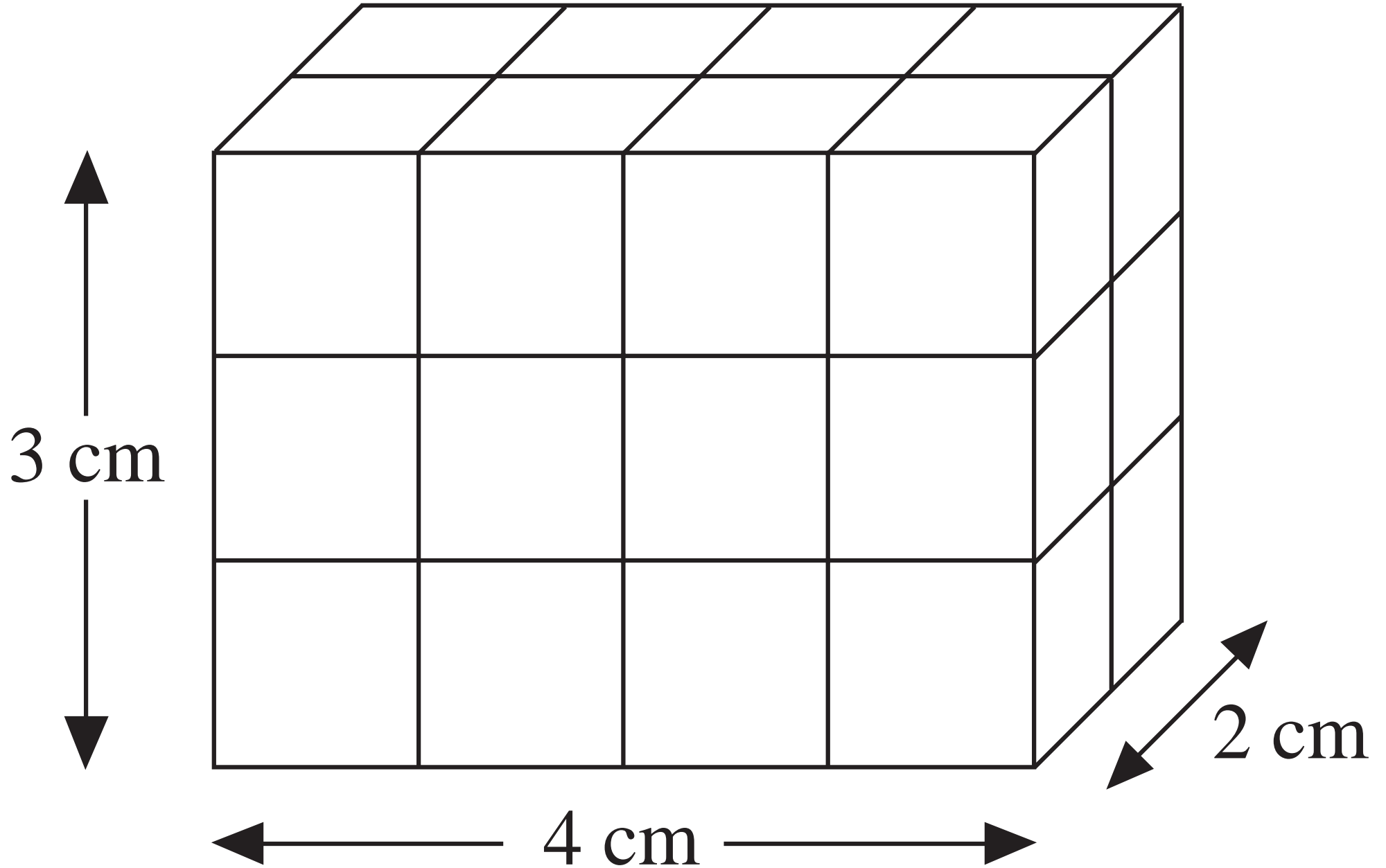
②

③

④

⑧

|          |  |  |  |  |  |
|----------|--|--|--|--|--|
| Faces    |  |  |  |  |  |
| Vertices |  |  |  |  |  |
| Edges    |  |  |  |  |  |







a)

|     |     |      |                |      |      |                   |                |
|-----|-----|------|----------------|------|------|-------------------|----------------|
| $e$ | 7   | -2.8 | $\frac{3}{4}$  | 0.81 |      | $-10\frac{1}{10}$ |                |
| $f$ | -14 | 5.6  | $-\frac{3}{2}$ |      | 6326 |                   | $-\frac{5}{7}$ |

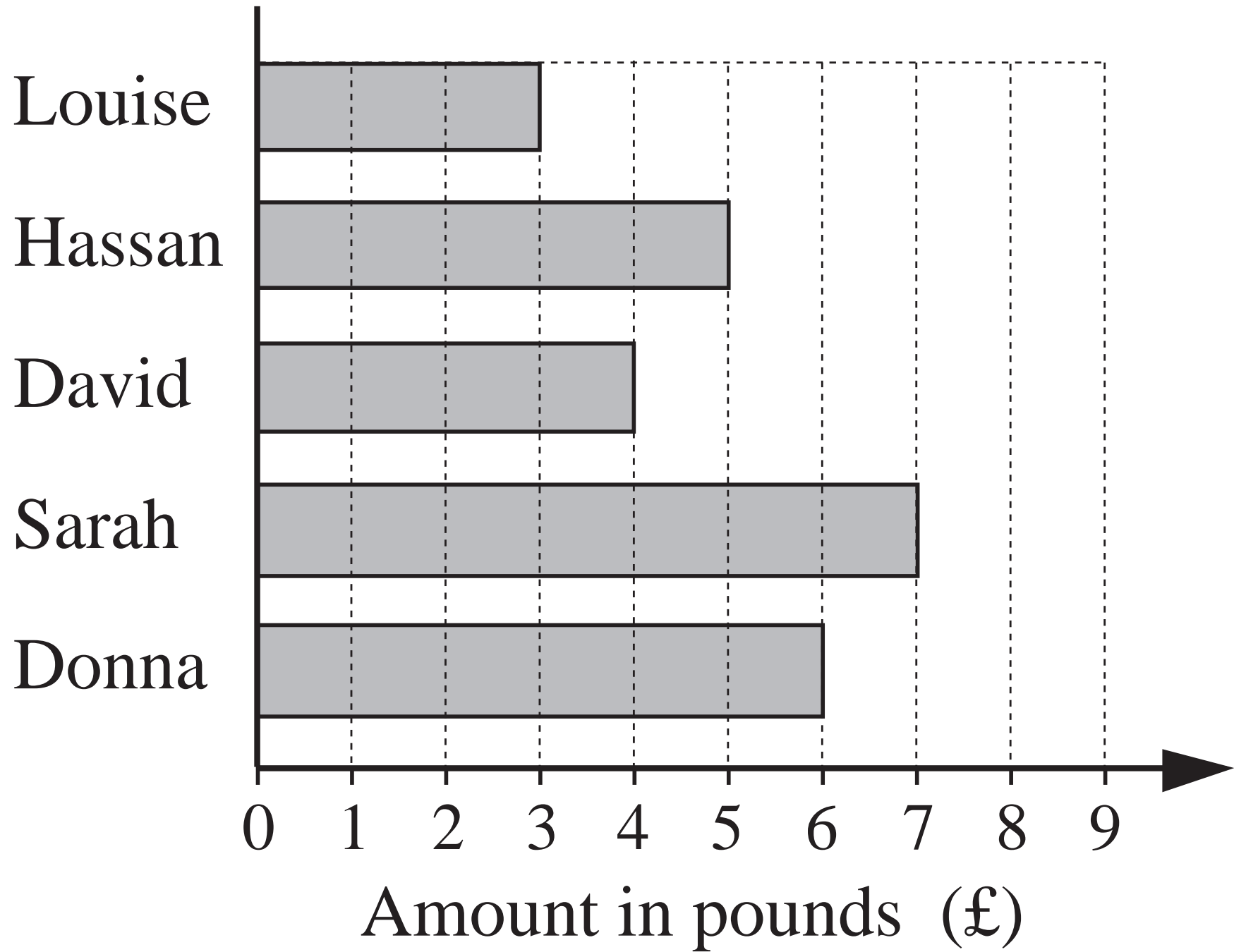
b)

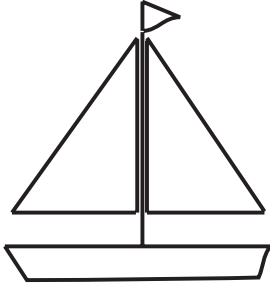
|     |   |    |    |     |   |   |    |    |     |   |
|-----|---|----|----|-----|---|---|----|----|-----|---|
| $u$ | 1 | 10 | 6  | 100 | 2 |   | -2 |    | 3.3 | 0 |
| $v$ | 2 | 29 | 17 | 299 |   | 8 |    | 44 |     |   |

c)

|     |   |   |   |    |    |   |   |  |    |  |    |     |
|-----|---|---|---|----|----|---|---|--|----|--|----|-----|
| $x$ | 0 | 1 | 2 | 3  | 8  | 4 | 5 |  | 7  |  |    | 11  |
| $y$ | 1 | 2 | 5 | 10 | 65 |   |   |  | 36 |  | 82 | 101 |

| Mass           | Cost in pence |              |
|----------------|---------------|--------------|
|                | First class   | Second class |
| Up to 60 g     | 26            | 20           |
| 61 g to 100 g  | 39            | 31           |
| 101 g to 150 g | 49            | 38           |
| 151 g to 200 g | 60            | 45           |
| 201 g to 250 g | 70            | 55           |



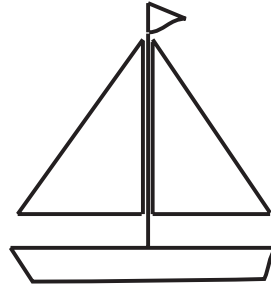


## ***Lark***

50 minute trip

**Tickets**

£2.75  
each

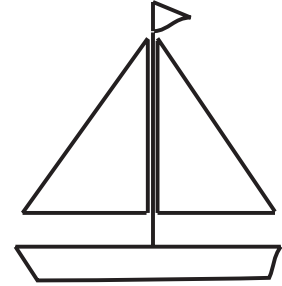


## ***Heron***

70 minute trip

**Tickets**

£3.50  
each

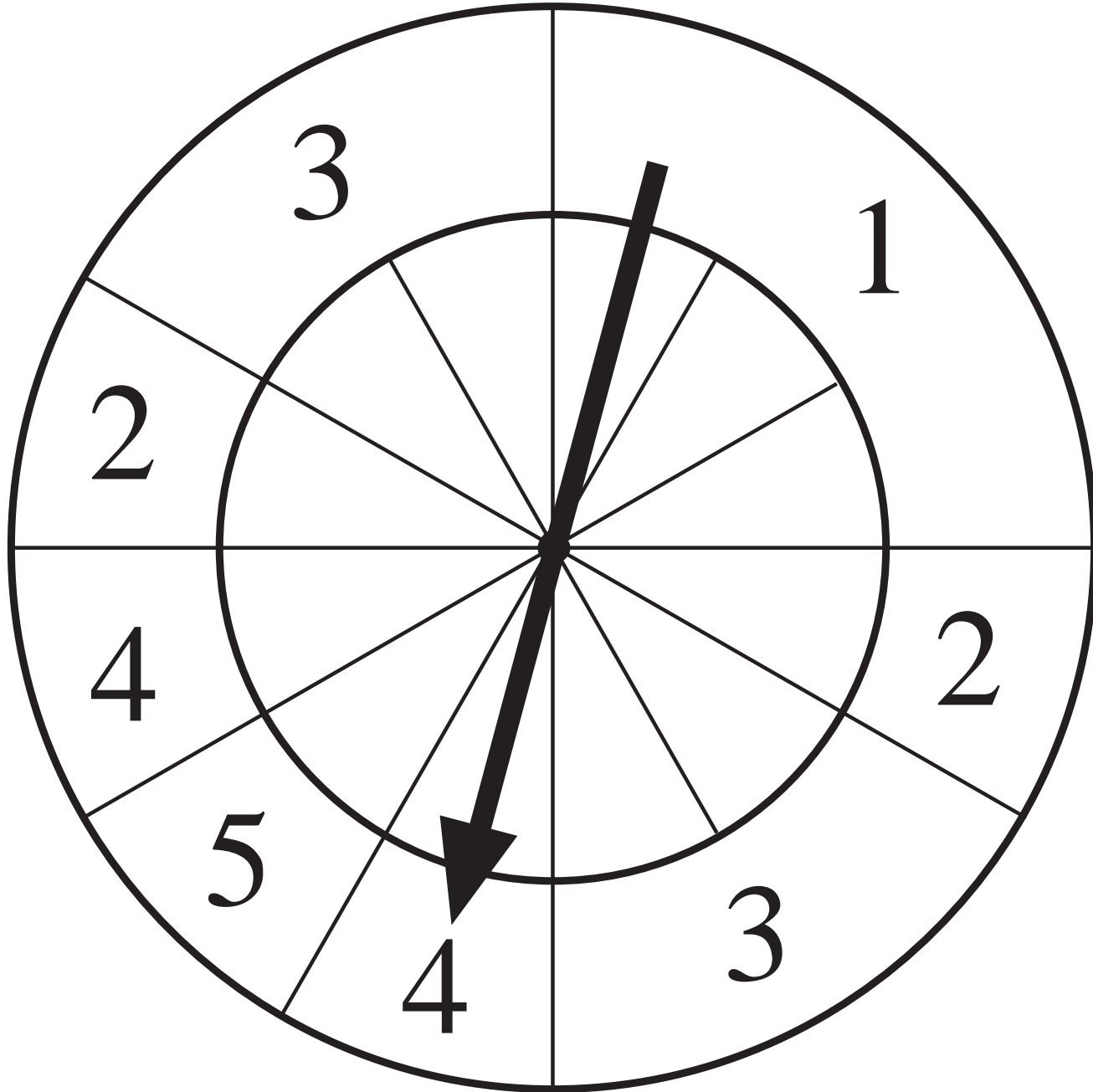


## ***Kestrel***

90 minute trip

**Tickets**

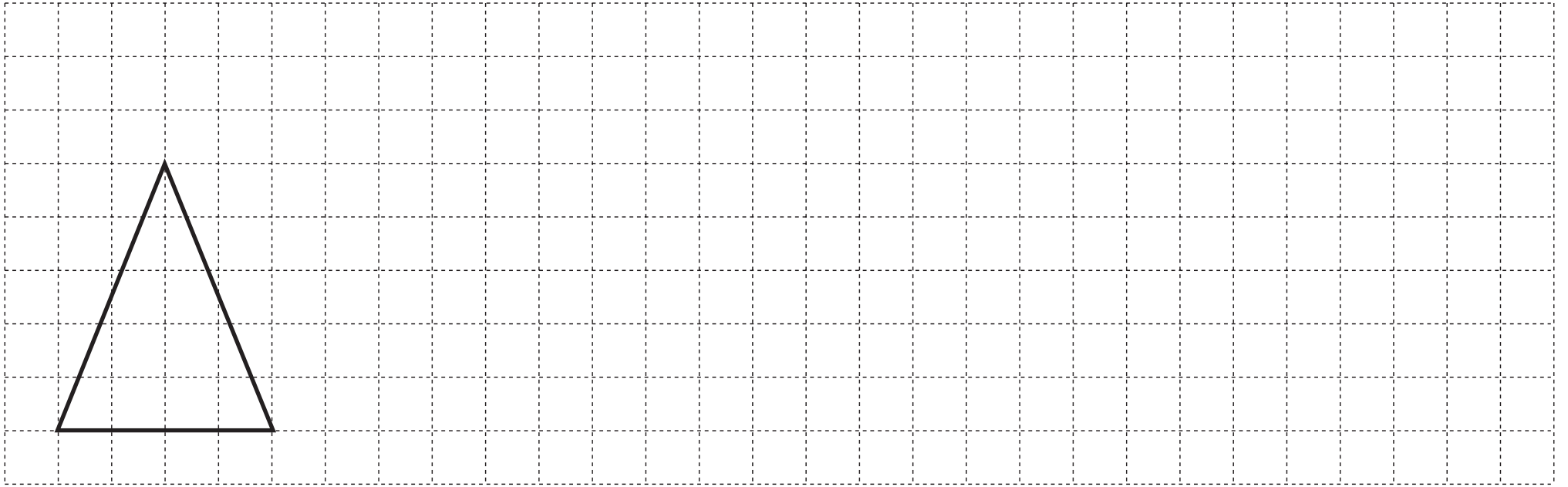
£4.20  
each



# August 1998

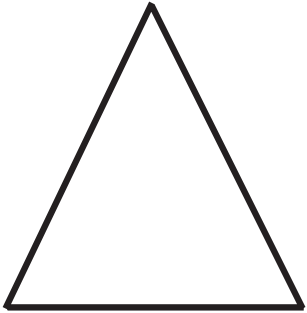
Sun Mon Tue Wed Thu Fri Sat

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

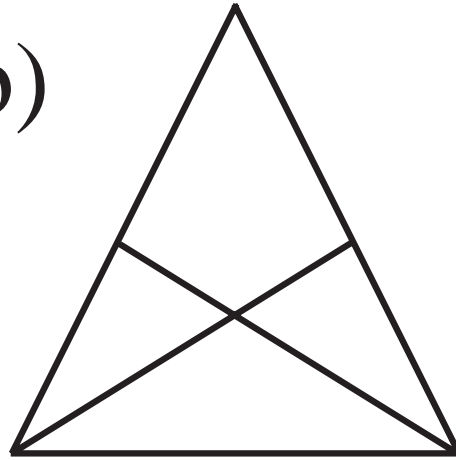




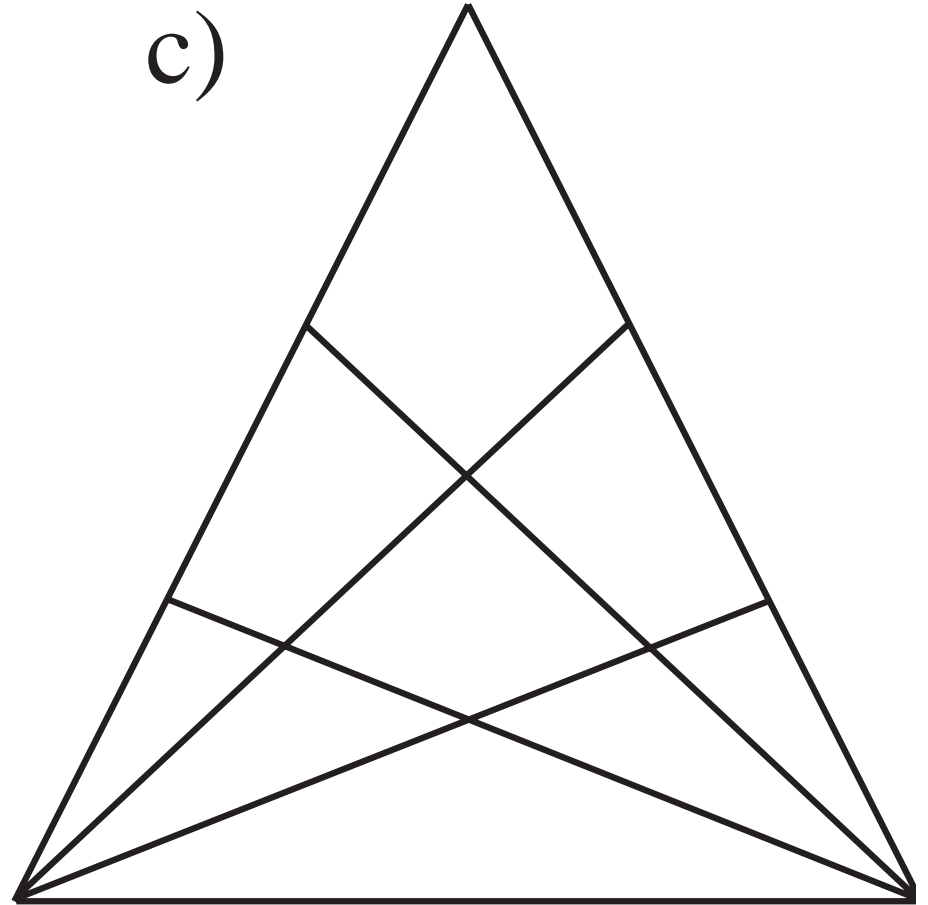
a)



b)



c)



a)

|     |    |     |     |    |    |                |                |
|-----|----|-----|-----|----|----|----------------|----------------|
| $a$ | 5  | 1.3 | 103 | 40 | 6  |                |                |
| $b$ | 2  | 2.4 | 76  | 25 |    | $2\frac{1}{5}$ | $\frac{1}{10}$ |
| $P$ | 14 | 7.4 | 358 |    | 18 | $6\frac{2}{5}$ | $\frac{3}{5}$  |

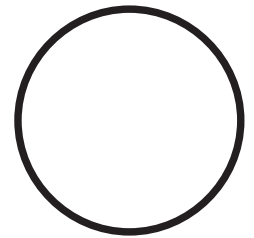
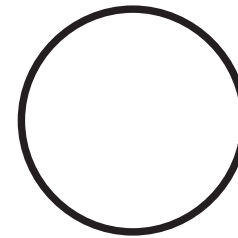
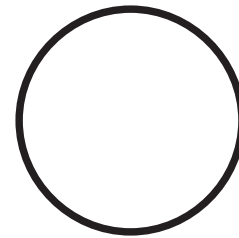
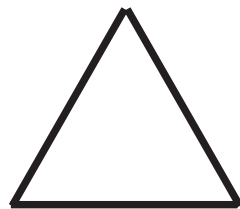
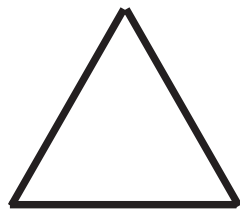
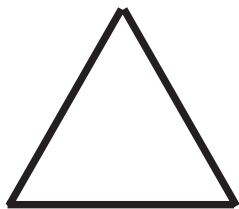
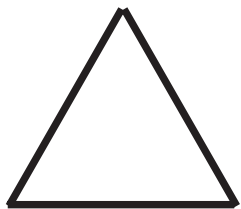
b)

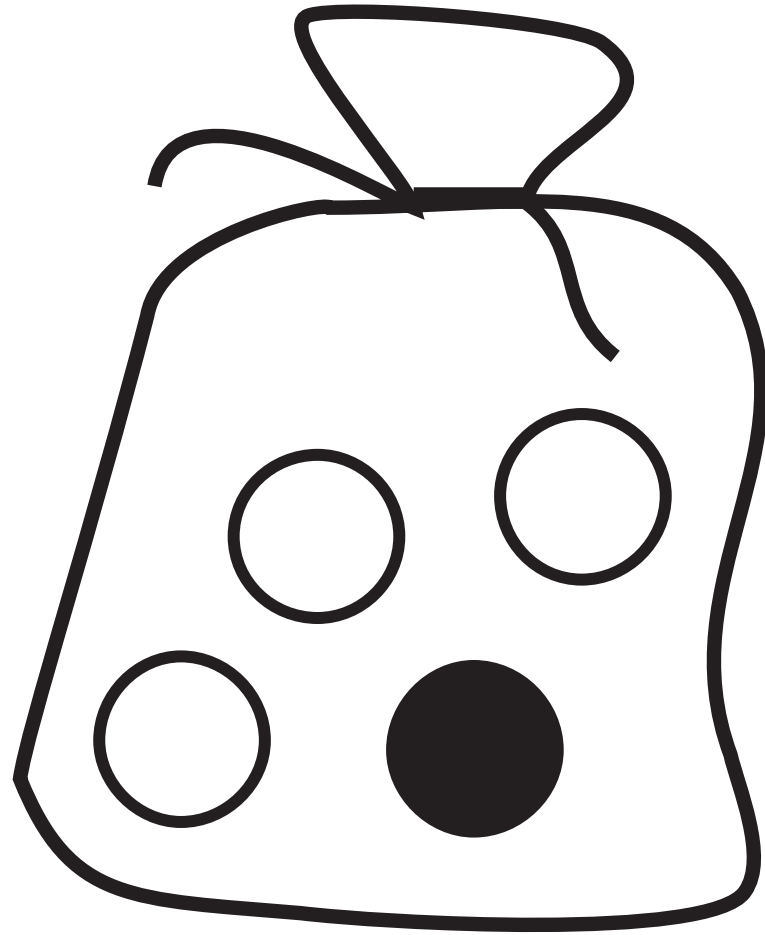
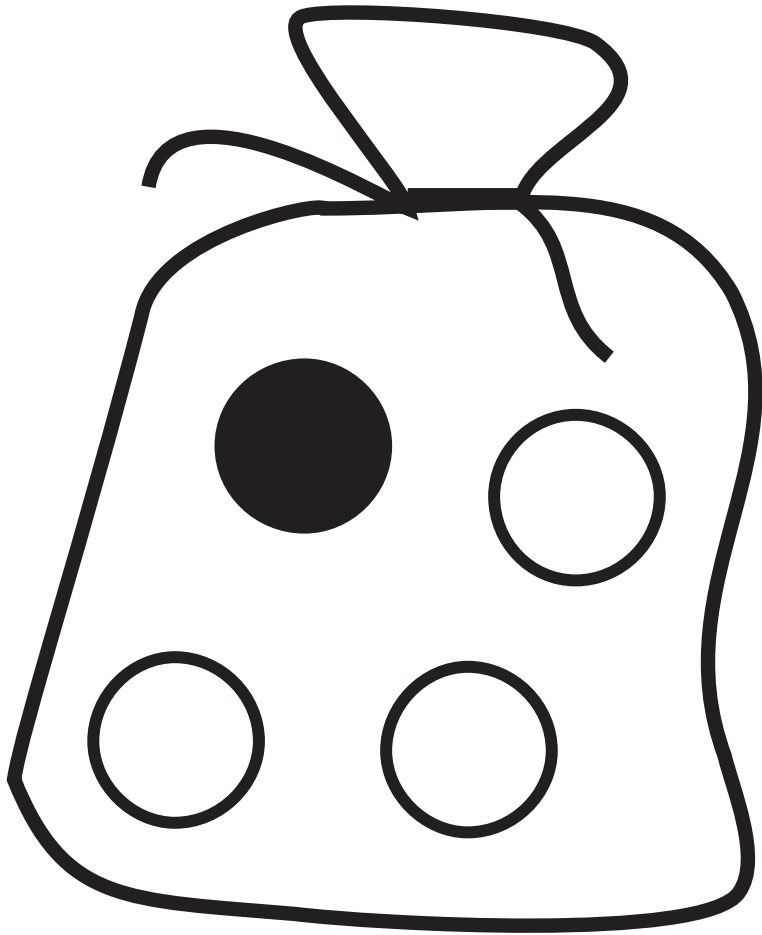
|          |   |     |      |    |    |                |     |
|----------|---|-----|------|----|----|----------------|-----|
| <i>e</i> | 3 | 5.8 | 10   | 30 | 9  |                | 1.4 |
| <i>f</i> | 4 | 2   | 200  | 60 |    | $4\frac{3}{4}$ | 5   |
| <i>A</i> | 6 | 5.8 | 1000 |    | 45 | $4\frac{3}{4}$ |     |

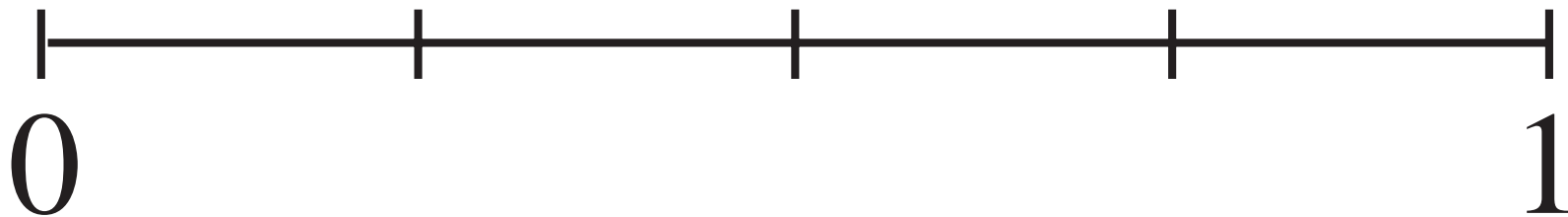
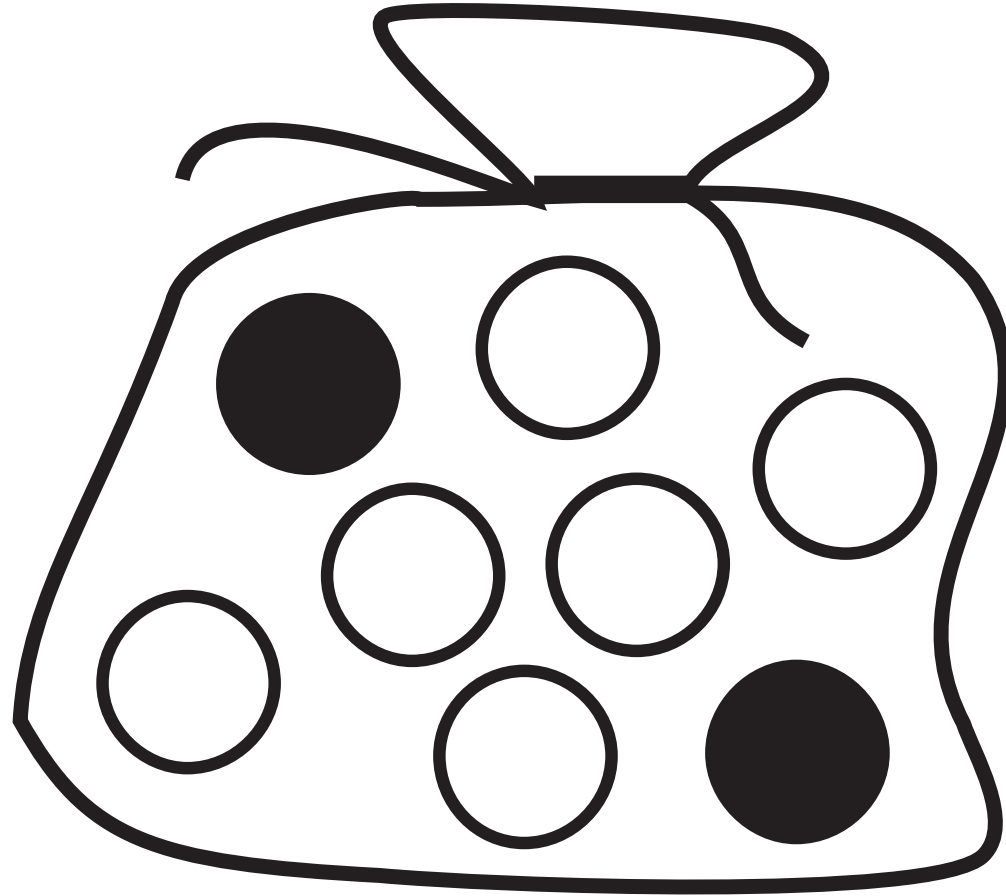
c)

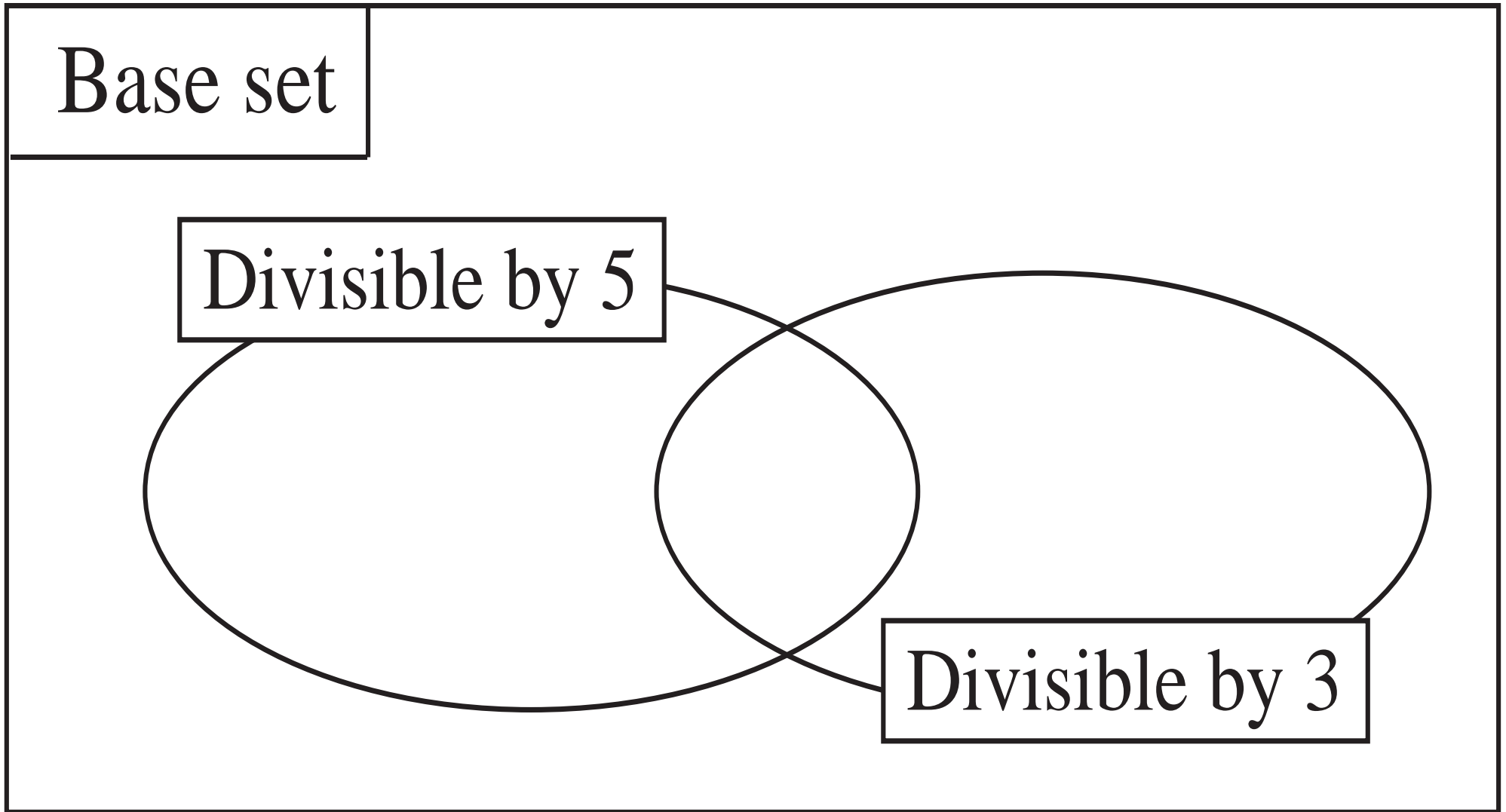
|          |               |   |     |    |   |                 |   |      |   |   |    |
|----------|---------------|---|-----|----|---|-----------------|---|------|---|---|----|
| <i>e</i> | 1             | 2 | 3   | 10 | 4 |                 | 6 |      | 8 | 9 | 11 |
| <i>A</i> | $\frac{1}{2}$ | 2 | 4.5 | 50 |   | $12\frac{1}{2}$ |   | 24.5 |   |   |    |

LP 171/2c

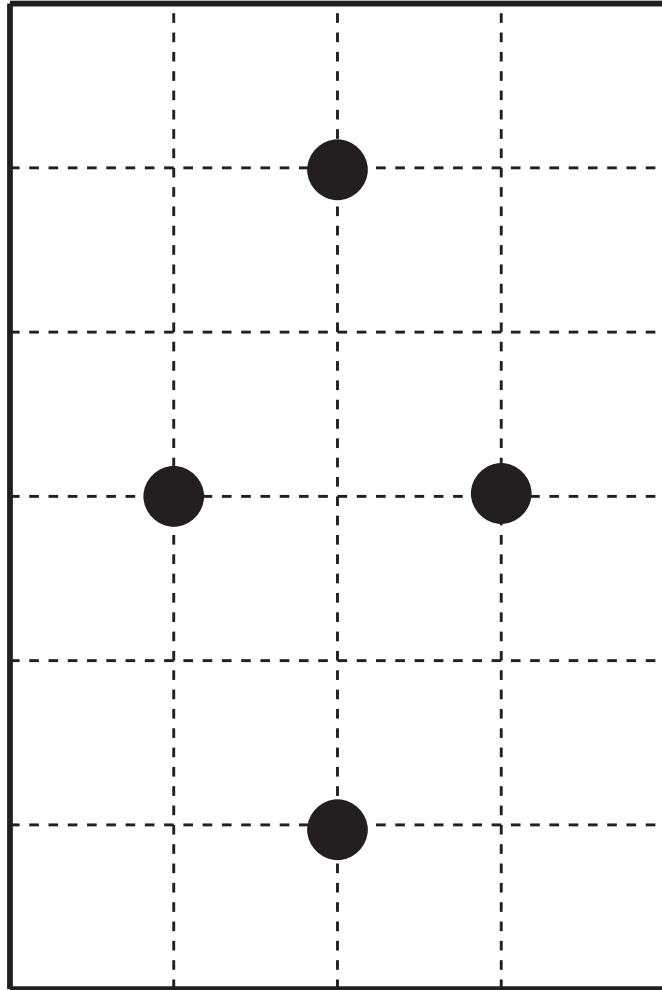




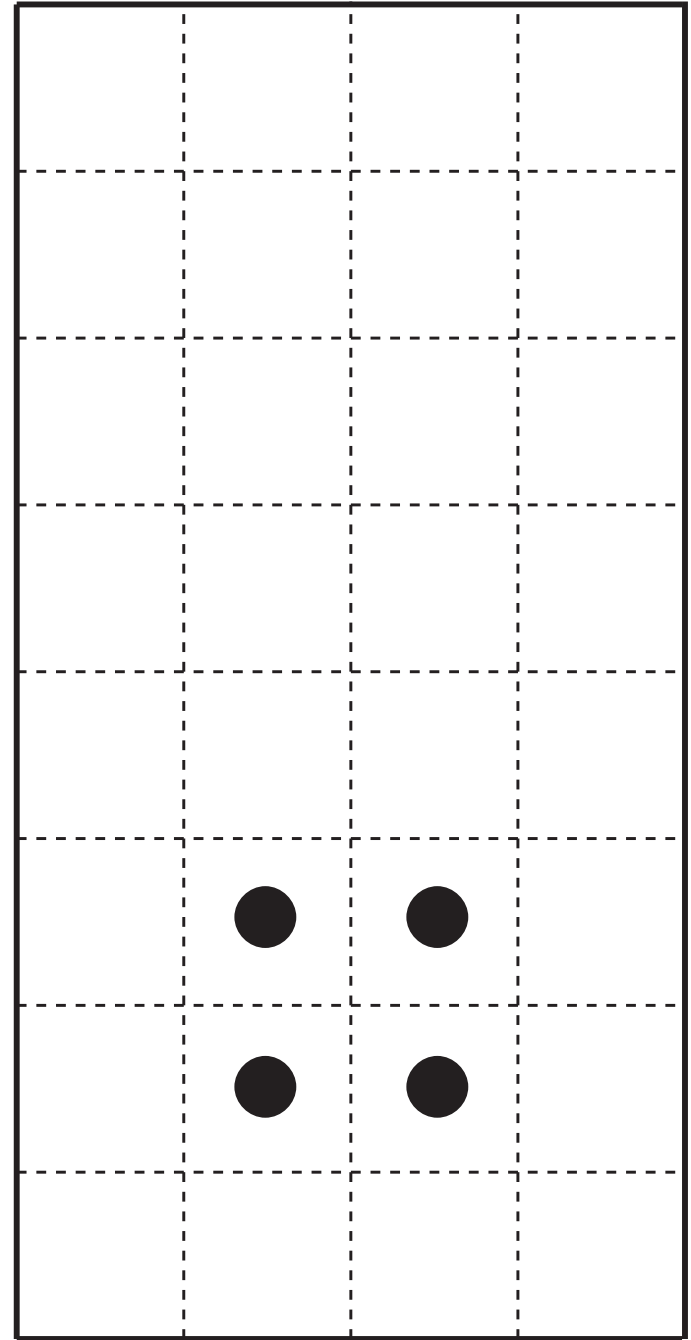




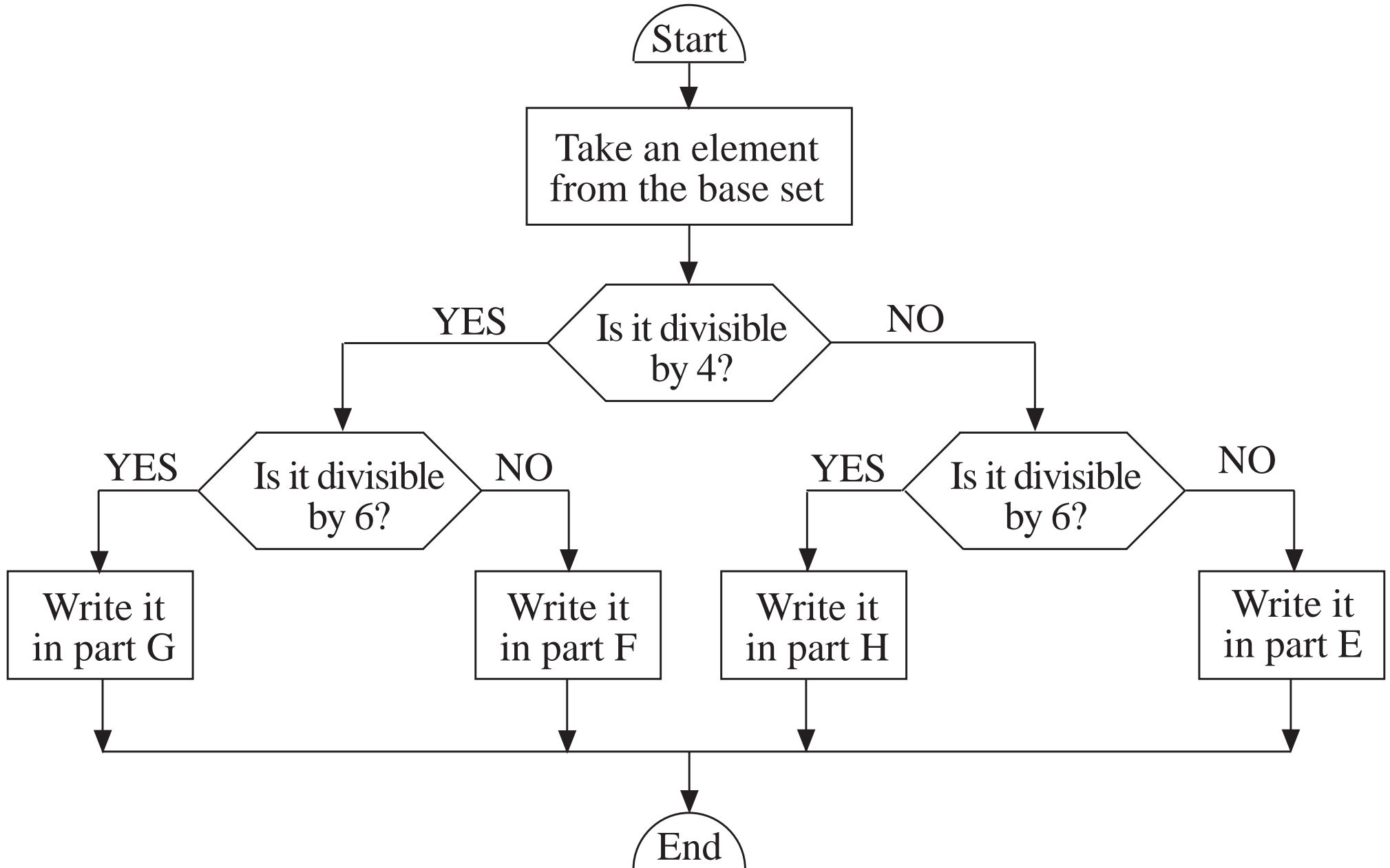
a)



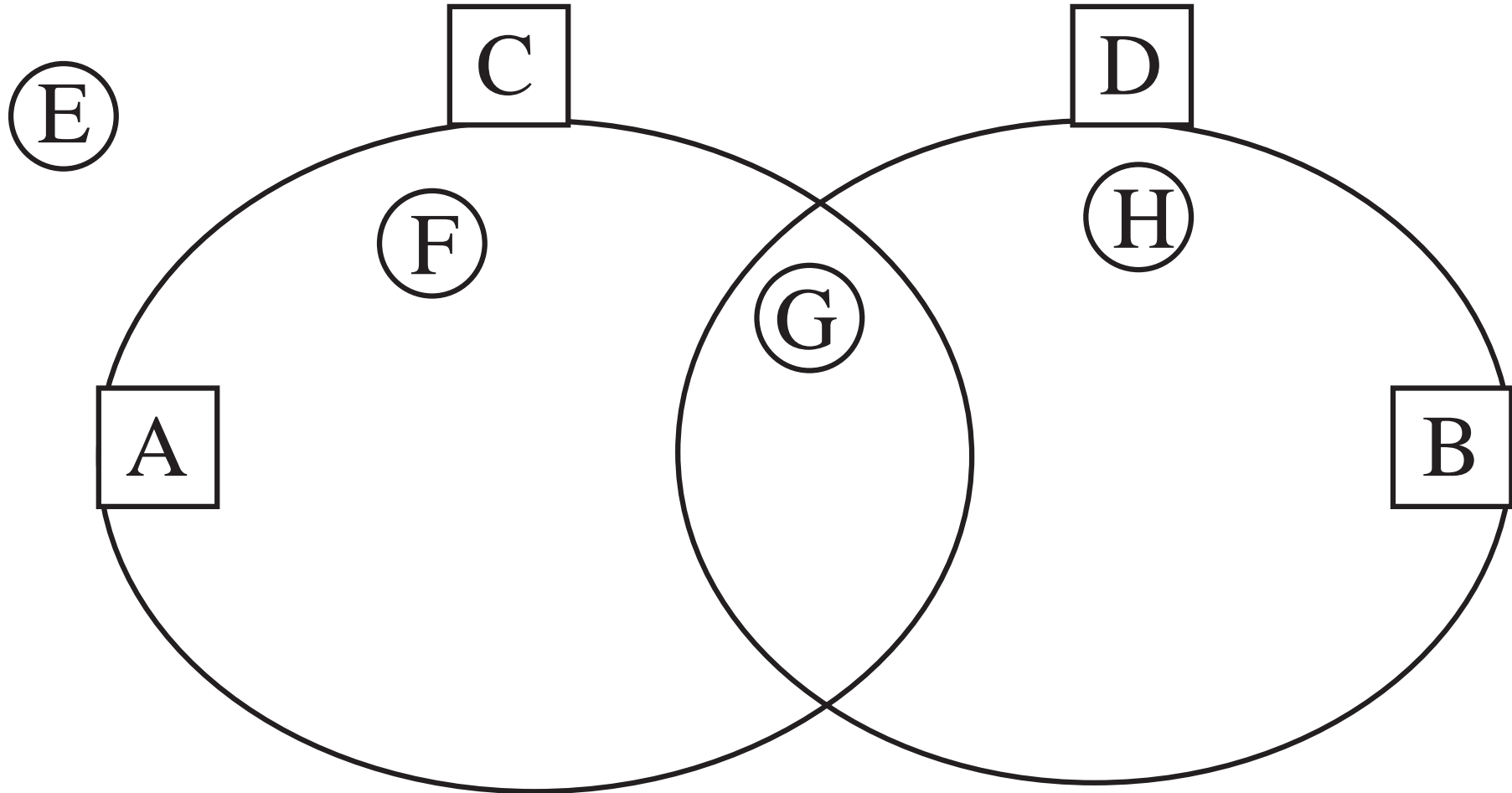
b)

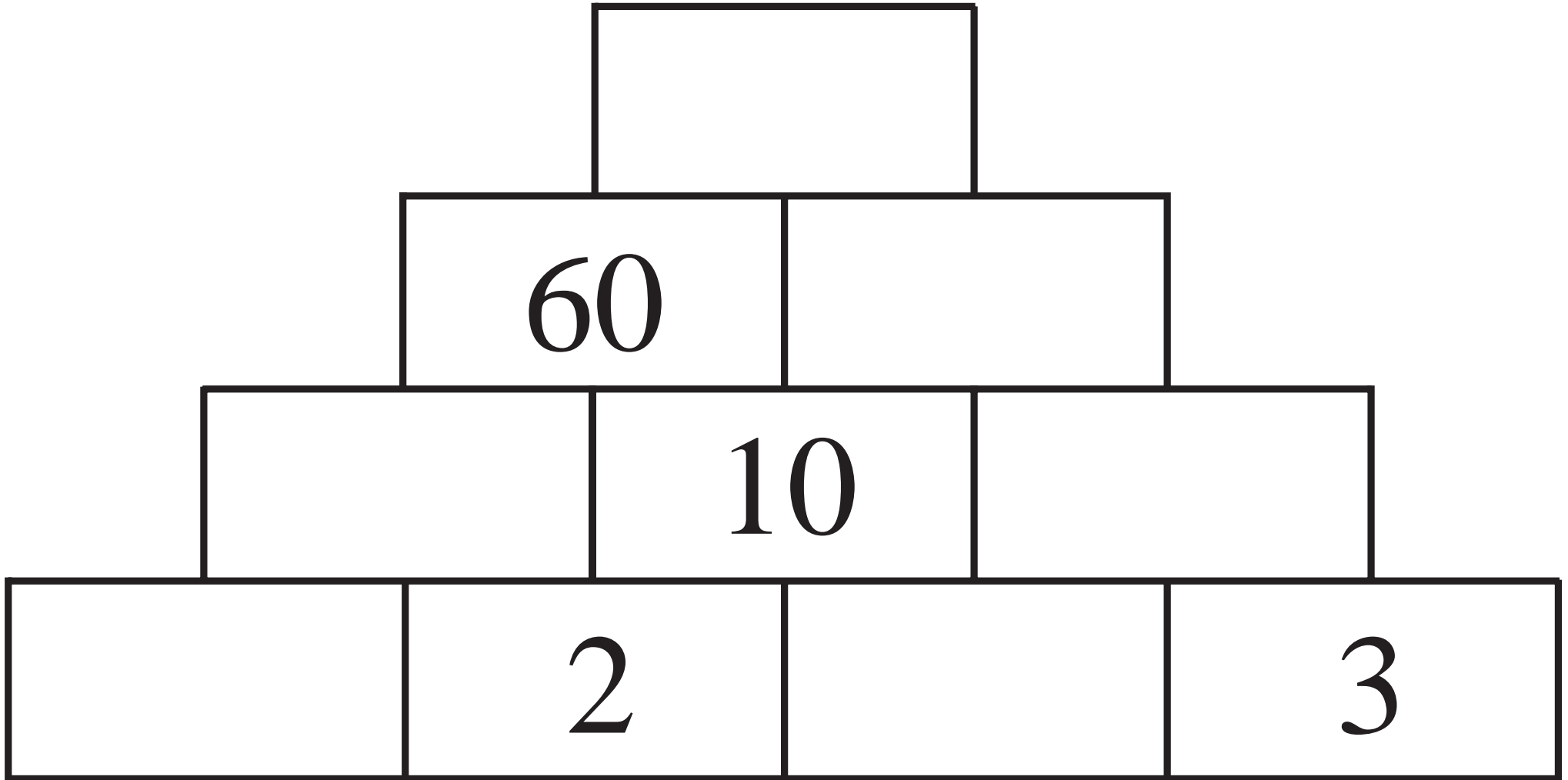


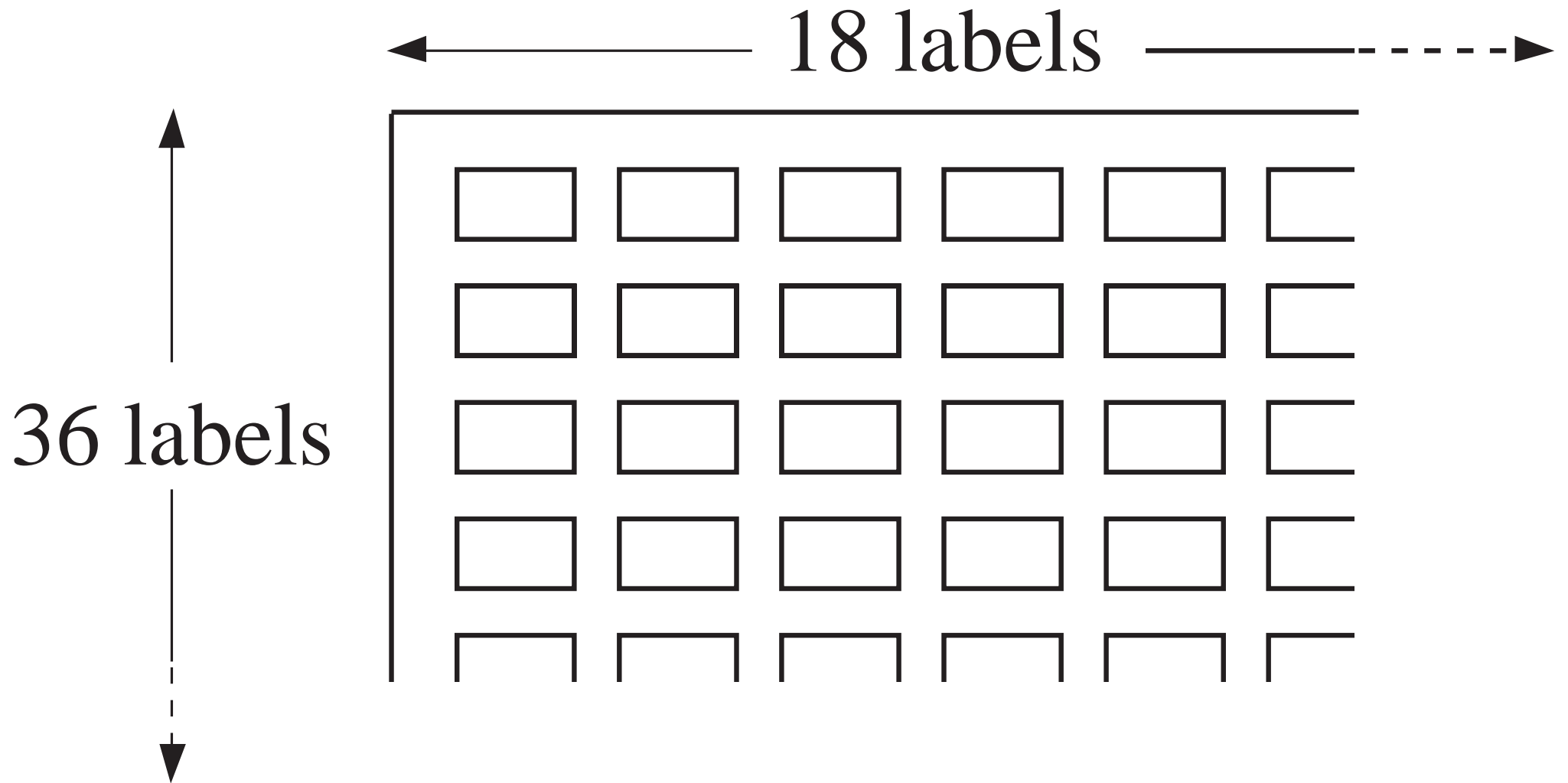




$0 < x < 25$ ; whole numbers







Pea Soup

Tomato Soup

Chicken Soup

Pea Soup

Tomato Soup

Mushroom Soup

