a) ① ① ① ① ① ① ① ① ① ① = [10]

1 ten = [ ] ones (units)

$1 \times 10 = 10 \times 1$

10

Ten

b) [10] [10] [10] [10] [10]
[10] [10] [10] [10] [10] = [100]

1 hundred = 10 [ ] = [ ] units

$1 \times 100 = 10 \times 10 = 100 \times 1$

100

Hundred

c) [100] [100] [100] [100] [100]
[100] [100] [100] [100] [100] = [1000]

1 thousand = [ ] hundreds = [ ] tens = [ ] units

$1 \times 1000 = 10 \times$ [ ] $= 100 \times$ [ ] $= 1000 \times 1$

1000

Thousand

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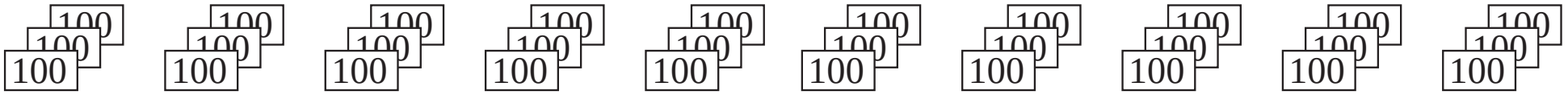
d) 1000 1000 1000 1000 1000
1000 1000 1000 1000 1000 = 10 000

10 000
Ten thousand

1 'ten thousand' = 10 ____ = ____ hundreds = ____ tens = ____ units

1 × 10 000 = ____ × 1000 = ____ × 100 = ____ × 10 = ____ × 1

e) 

3 thousand = ____ hundreds = ____ tens = ____ units

3 × ____ = 30 × ____ = 300 × ____ = 3000 × ____

3000
Three thousand

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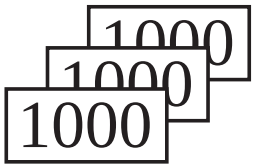
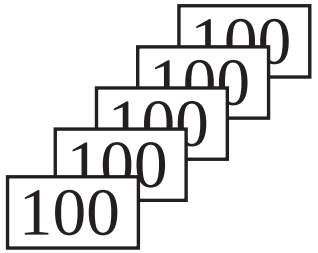
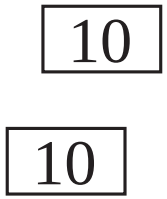
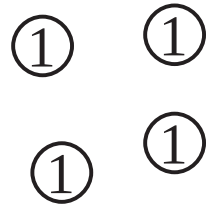
Ten thousands	Thousands	Hundreds	Tens	Units
				

TTh	Th	H	T	U

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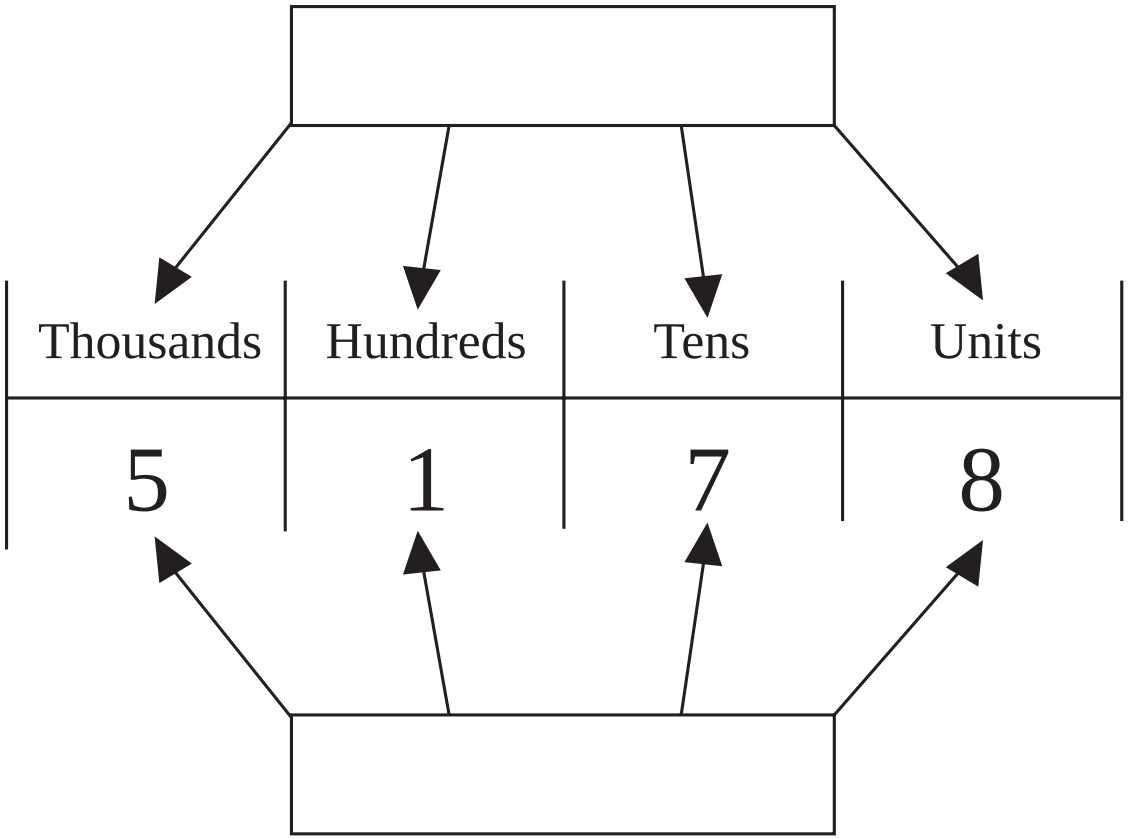
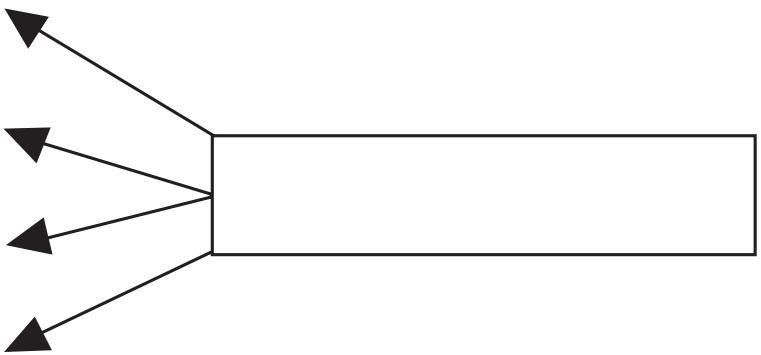


5 thousands = 5000

1 hundred = 100

7 tens = 70

8 units = 8



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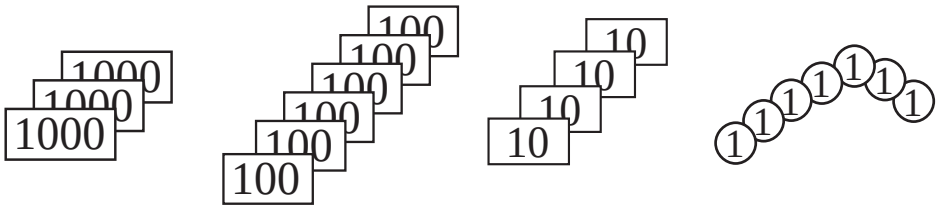
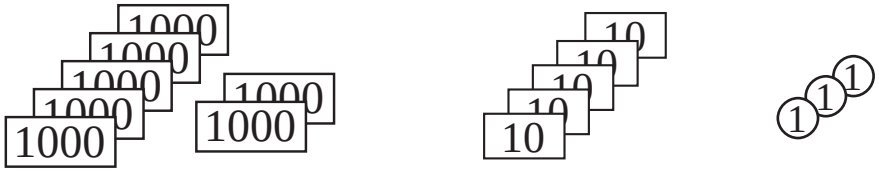
a)



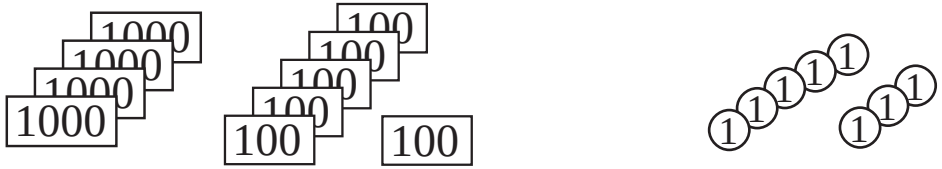
Th	H	T	U

b)



Th	H	T	U

c)



Th	H	T	U

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Th	H	T	U
1	6	3	4
3	4	0	7
8	0	2	5
7	2	0	5
8	0	0	8
6	0	3	0

= ☐☐☐☐ + ☐☐☐ + ☐☐ + ☐

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a) 2847 = $\square \times 1000 + \square \times 100 + \square \times 10 + \square \times 1$

b) 6570 = $\square \times 1000 + \square \times 100 + \square \times 10 + \square \times 1$

c) 4501 = $\square \times 1000 + \square \times 100 + \square \times 10 + \square \times 1$

d) 6600 = $\square \times 1000 + \square \times 100 + \square \times 10 + \square \times 1$

e) 965 = $\square \times 1000 + \square \times 100 + \square \times 10 + \square \times 1$

f) 4059 = $\square \times 1000 + \square \times 100 + \square \times 10 + \square \times 1$

g) 2874 = $\square \times 1000 + \square \times 100 + \square \times 10 + \square \times 1$

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Eight thousand, three hundred and sixty three

Nine thousand and sixty four

Two thousand, seven hundred and five

Six thousand, nine hundred and seventy

Nine hundred and sixteen

$4 \times 1000 + 3 \times 100 + 8 \times 10 + 7 \times 1$

$2 \times 1000 + 9 \times 100 + 6 \times 10$

$5 \times 1000 + 4 \times 10 + 8 \times 1$

$1 \times 1000 + 5 \times 100 + 4 \times 1$

$8000 + 300 + 40 + 2$

TTh	Th	H	T	U

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a) i) 7312 = ☐ Th + ☐ H + ☐ T + ☐ U

ii) 4067 = ☐ Th + ☐ H + ☐ T + ☐ U

iii) 9304 = ☐ Th + ☐ H + ☐ T + ☐ U

b) i) 6018 = 6 ☐ + 0 ☐ + 1 ☐ + 8 ☐

ii) 3568 = 3 ☐ + 5 ☐ + 6 ☐ + 8 ☐

iii) 2605 = 2 ☐ + 6 ☐ + 0 ☐ + 5 ☐

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1Th + 5H + 3T

4000 + 300 + 20 + 5

MDXXX

$8 \times 100 + 7 \times 10 + 4 \times 1$

DCCCLXXIV

8H + 7T + 4U

$4 \times 1000 + 3 \times 100 + 2 \times 10 + 5 \times 1$

1530

$15 \times 100 + 30$

874

8Th + 7T + 4U

8000 + 70 + 4

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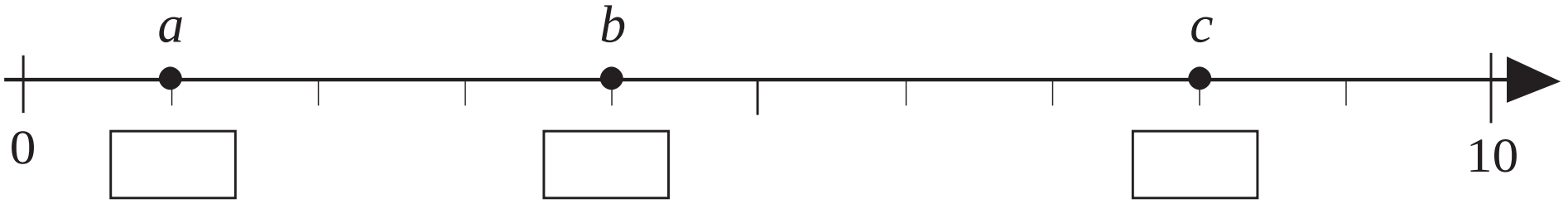
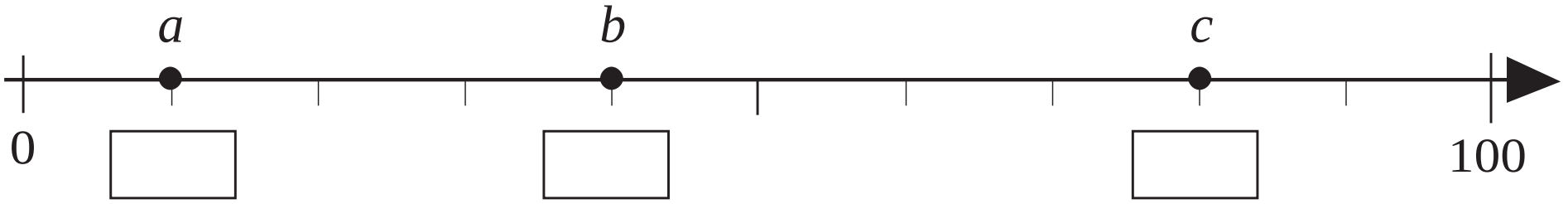
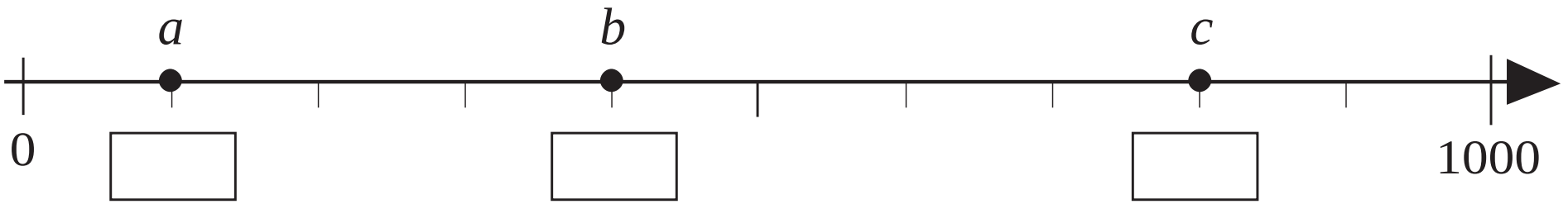
a)



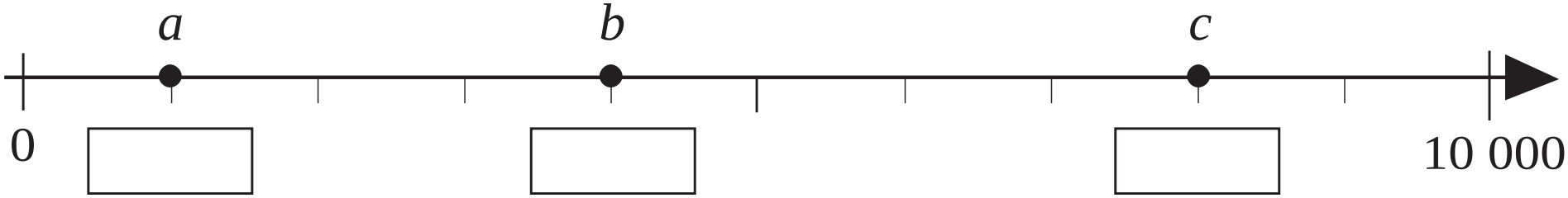
b)



c)



d)



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Next smaller 1000		Next smaller 100		Next smaller 10				Next greater 10		Next greater 100		Next greater 1000
	<		<		<	3817	<		<		<	
	=		<		<	6045	<		<		<	
	<		=		<	8409	<		<		<	
	<		<		<	4523	<		<		<	

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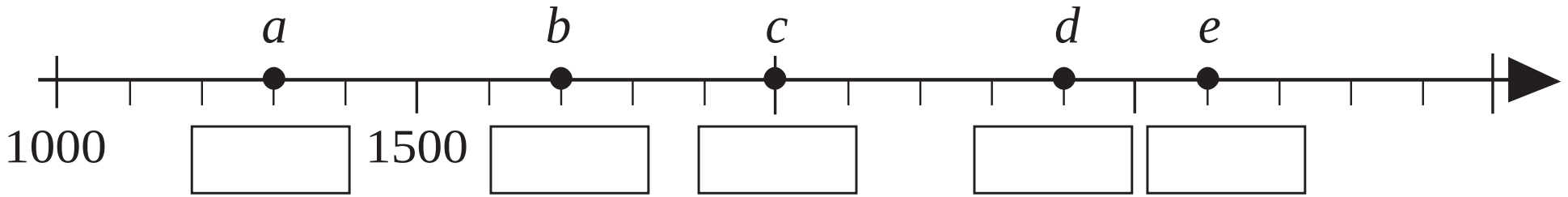
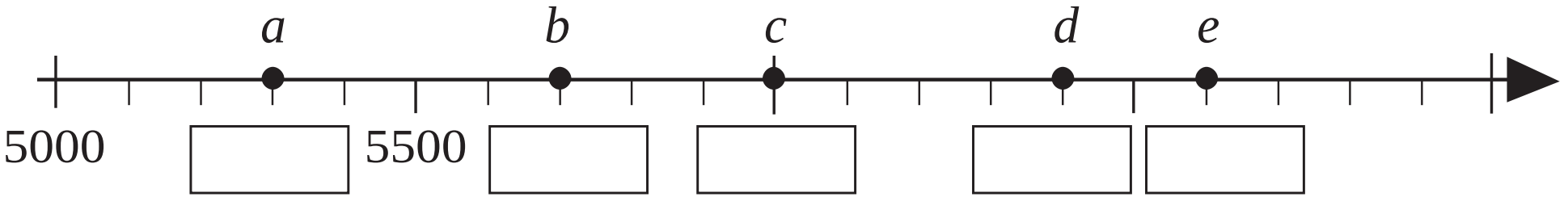
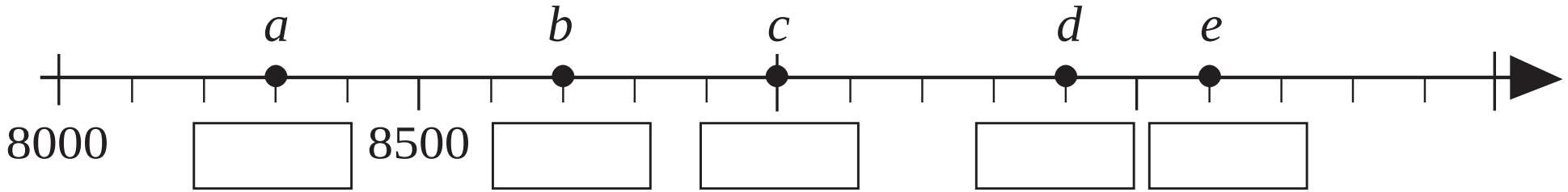
a)



b)



c)



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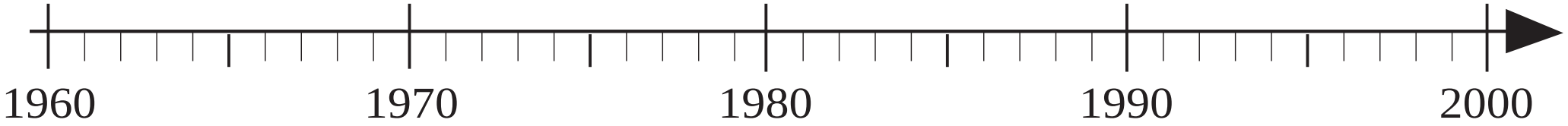
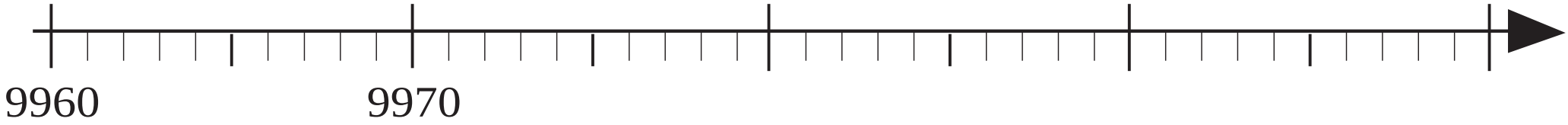
$a = 1965$ $b = 9972$ $c = 1999$ $d = 9981$ $e = 1983$ $f = 9965$





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$\square < \square < \square < 4263 < \square < \square < \square$

$\square < \square < \square < 6728 < \square < \square < \square$

$\square < \square = \square < 9806 < \square < \square < \square$

$\square < \square < \square < 7777 < \square < \square < \square$

$\square < \square < \square < 2222 < \square < \square < \square$

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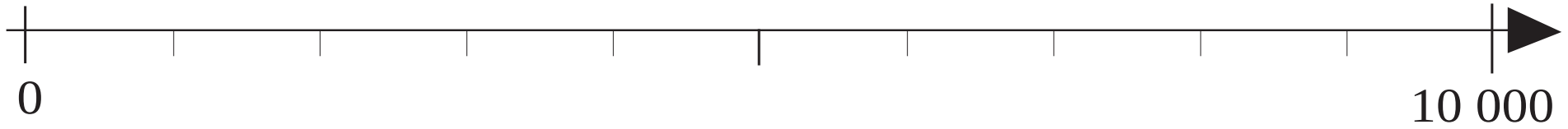
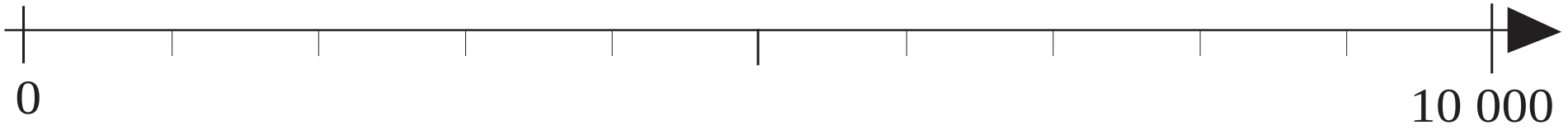
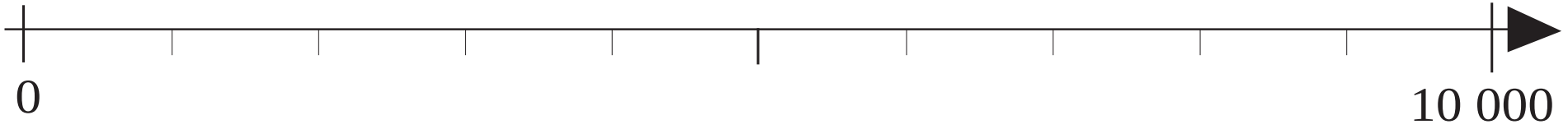
a) 3000 < ☐ ≤ 8000 ☐ : _____



b) 4285 < ☐ < 7940 ☐ : _____



c) 3200 > ☐ > 1900 ☐ : _____



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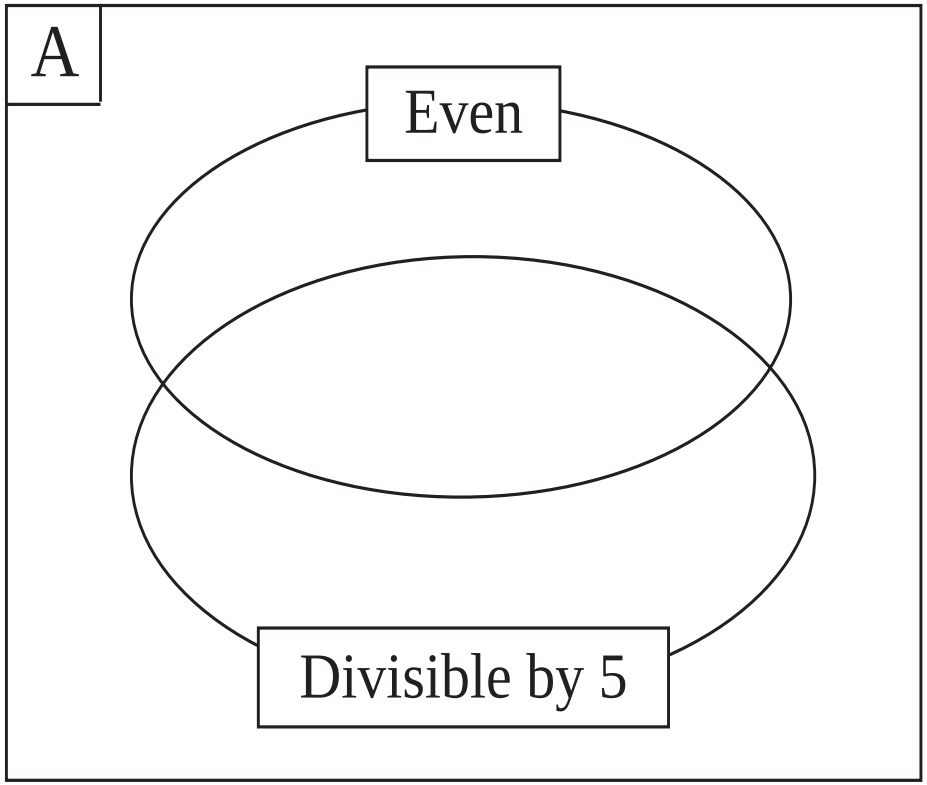
$$A = \{ 0,\ 5,\ 9,\ 12,\ 60,\ 67,\ 275,\ 354,\ 4030,\ 6455,\ 8000 \}$$

a)

	Divisible by 5	Not divisible by 5
Even		
Odd		

b)



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			ten		hundred		thousand
a)	2374	≈		≈		≈	
b)	8527	≈		≈		≈	
c)	6285	≈		≈		≈	
d)	3600	=		=		≈	
e)	9819	≈		≈		≈	
f)	5499	≈		=		≈	

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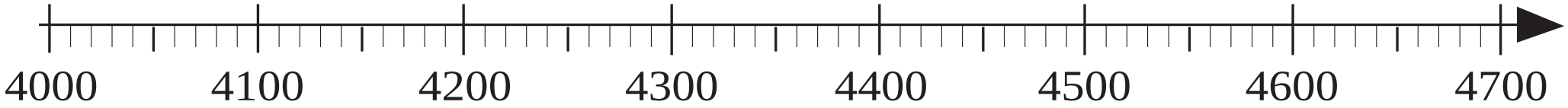
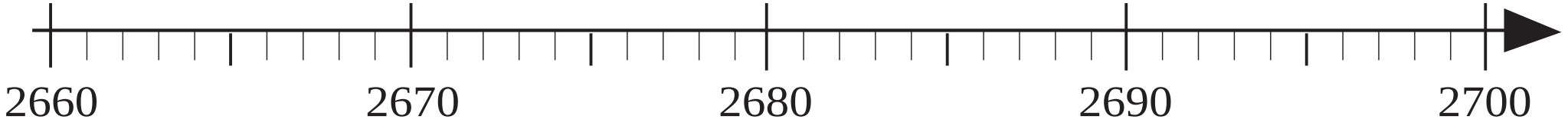
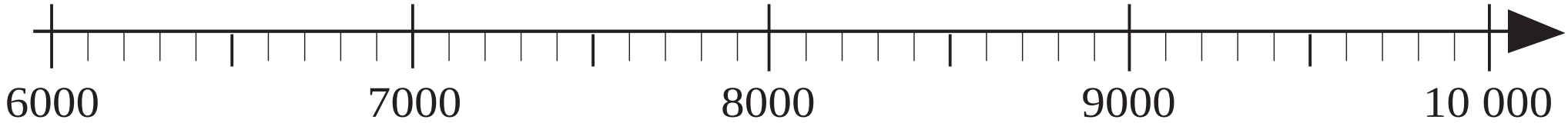
a)



b)



c)



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a) It rounds to 5430 as the nearest 10.

5 4 3 *a* 5 4 *b* 5 5 *c* 3 4 *d* 4 2 8 5 4 *e* 4

a: *b*: *c*: *d*: *e*:

b) It rounds to 7800 as the nearest 100.

7 8 5 *f* 78 *g* 9 7 *h* 5 2 *i* 7 8 9 7 7 *j* 0

f: *g*: *h*: *i*: *j*:

c) It rounds to 9000 as the nearest 1000.

9 3 7 *k* 8 5 *l* 0 9 *m* 9 9 *n* 5 5 5 *p* 4 9 9

k: *l*: *m* : *n*: *p*:

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a) i)

Had	Was given
10 10 10	10 10 10 10 10

ii)

Had	Was given
100 100 100	100 100 100 100

iii)

Had	Was given
1000 1000 1000	1000 1000 1000 1000 1000

b) i)

Had	Was given
10 10 5	10 10 10 10

ii)

Had	Was given
100 100 50	100 100 100 100

iii)

Had	Was given
1000 1000 500	1000 1000 1000 1000 1000

c) i)

Had	Spent
10 10 10 10 10 10	10 10

ii)

Had	Spent
100 100 100 100 100	100 100

iii)

Had	Spent
1000 1000 1000 1000 1000	1000 1000

d) i)

Had	Spent
50 50 10	10 10 10

ii)

Had	Spent
500 500 100	100 100 100

iii)

Had	Spent
5000 5000 1000	1000 1000 1000

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a) $30 + \square = 70$, $300 + \square = 700$, $3000 + \square = 7000$

b) $80 - \square = 20$, $800 - \square = 200$, $8000 - \square = 2000$

c) $\square + 40 = 70$, $\square + 400 = 700$, $\square + 4000 = 7000$

d) $\square - 60 = 20$, $\square - 600 = 200$, $\square - 6000 = 2000$

e) $8 + \square = 13$, $800 + \square = 1300$, $8000 + \square = 13\,000$

f) $\square - 90 = 30$, $1200 - \square = 900$, $\square - 9000 = 3000$

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a)

b)

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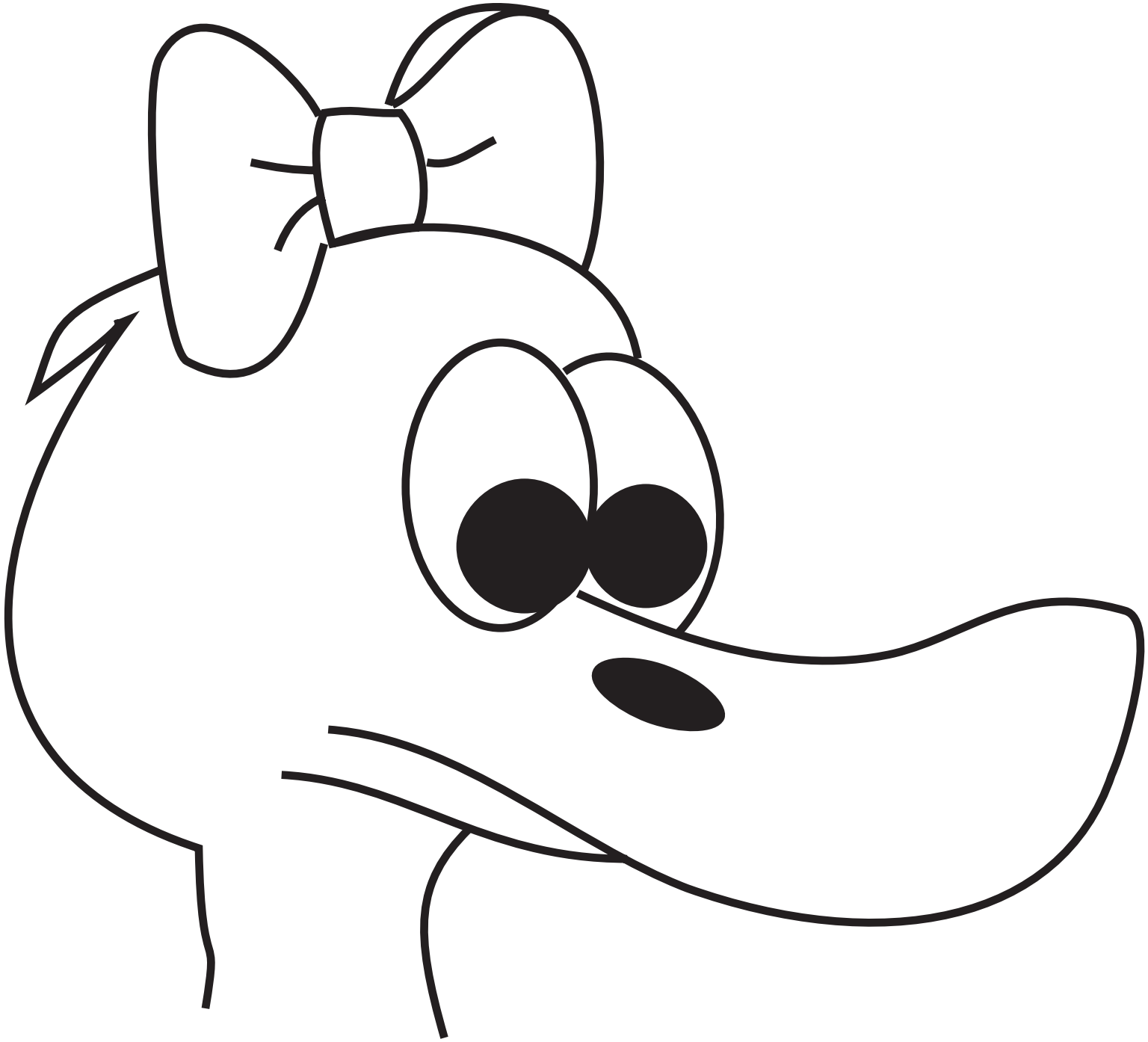

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a) 4600 + 3900 = ☐

b) 4600 + 4000 – 1000 = ☐

c) 3900 + 4000 + 600 = ☐

d) 3900 + 4000 – 600 = ☐

e) 9700 – 1200 = ☐

f) 9700 – 1000 + 200 = ☐

g) 9700 – 2000 + 800 = ☐

h) 10 000 – 1200 – 300 = ☐

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a)

5000	2000	2000
	3000	

b)

		2000
	3000	
4000		2500

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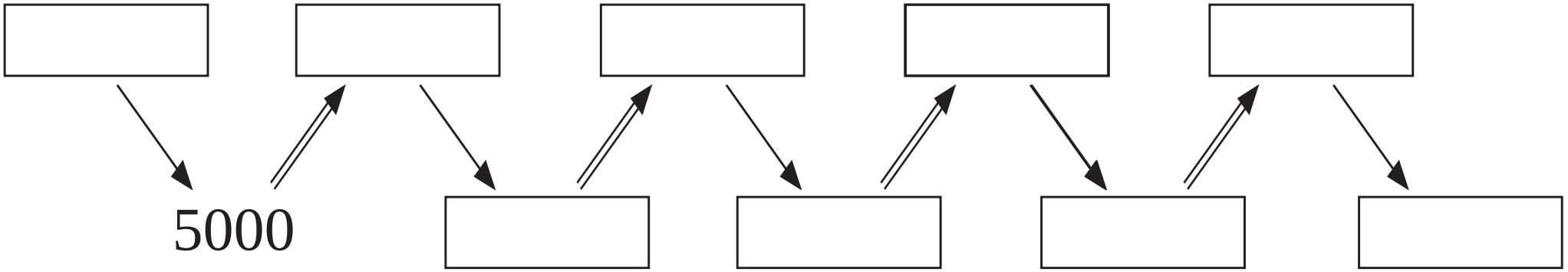
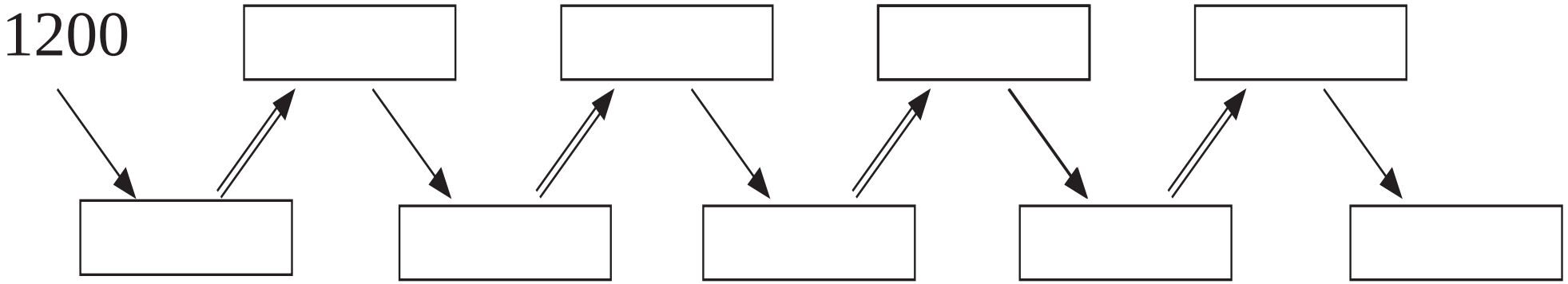
a) ⟶ means + 4000 and ⟹ means – 3000



b) ⟶ means + 4500 and ⟹ means – 2500



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a)

	5000	
7000	4000	4000

b)

4700		
4500	4000	3500

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a) 2653 + 1746

E:

C:

b) 1256 + 7902

E:

C:

c) 5343 + 2145

E:

C:

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a)

	7	8	5	6
+				
	9	4	0	8

b)

+	2	5	3	7
	7	4	5	9

c)

	7	3	7	6
+				
1	1	5	5	5

d)

	4		3	6
+		7	8	
	7	8		3

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a) $8587 - 5362 \approx$

C:

Check:

b) $4567 - 1572 \approx$

C:

Check:

c) $7438 - 5620 \approx$

C:

Check:

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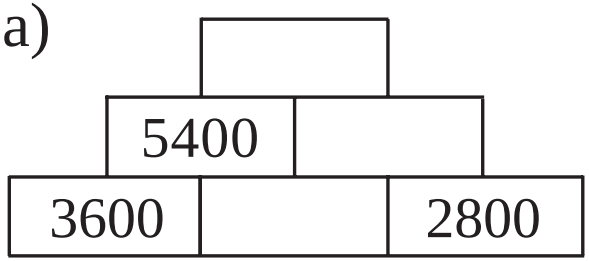
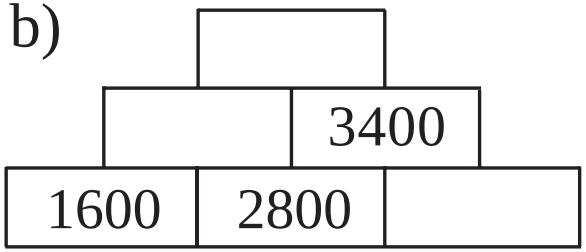
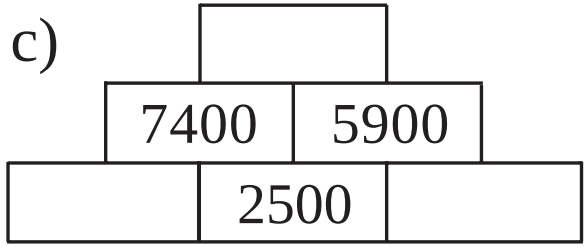
a)



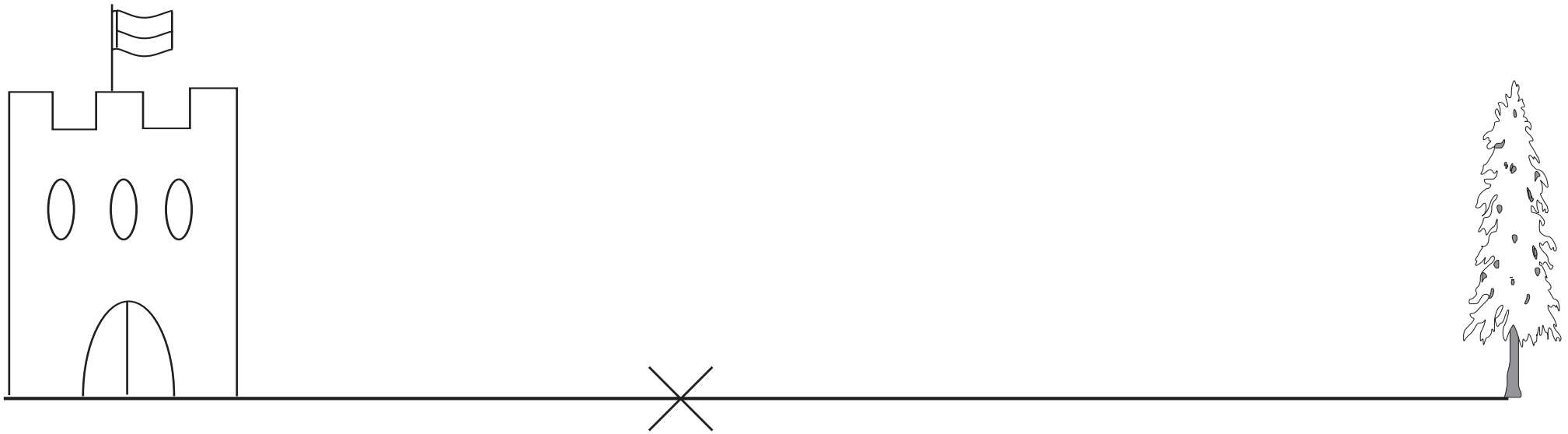
b)



c)



LP 38/7



LP 39/7

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a) i) $3600 + 4700 =$

ii) $(3600 + 200) + 4700 =$

ii) $3600 + (4700 + 300) =$

iv) $(3600 - 600) + 4700 =$

v) $3600 + (4700 - 1000) =$

vi) $(3600 + 400) + (4700 - 400) =$

b) i) $7500 - 3700 =$

ii) $(7500 + 500) - 3700 =$

ii) $7500 - (3700 + 300) =$

iv) $(7500 - 500) - 3700 =$

v) $7500 - (3700 - 700) =$

vi) $(7500 + 100) - (3700 + 100) =$

vii) $(7500 - 200) - (3700 - 200) =$

viii) $(7500 - 500) - (3700 + 500) =$

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a) $3758 + \square = 7758$

$3758 + \square < 7758$

$3758 + \square > 7758$

b) $\square + 2568 = 9568$

$\square + 2568 < 9568$

$\square + 2568 \leq 9568$

c) $9534 - \square = 6534$

$9534 - \square < 6534$

$9534 - \square \geq 6534$

d) $\square - 3108 = 6892$

$\square - 3108 > 6892$

$\square - 3108 \neq 6892$

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a)

3600	+	1800	=		+		=	
+		+		+		+		+
1900	=			2600	=			

b)

12 500	−		=		−		=	
−		−		−		−		−
7200	=			3500	−		=	
				=		=		=
						5400	=	

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a)

	2		6	
+		5	7	1
	7	8		8

b)

		6		1
+	3		2	
	9	4	2	0

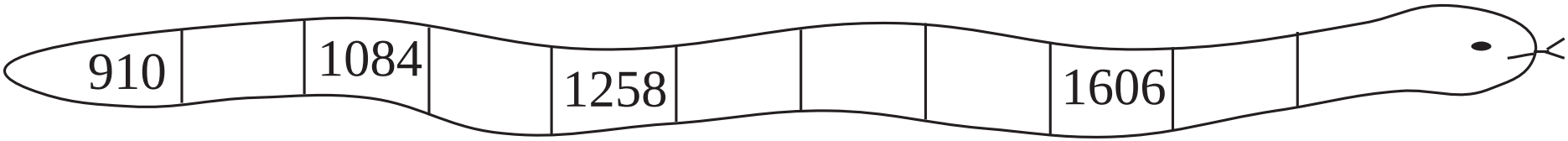
c)

	2		9	
−		6		3
	1	2	9	2

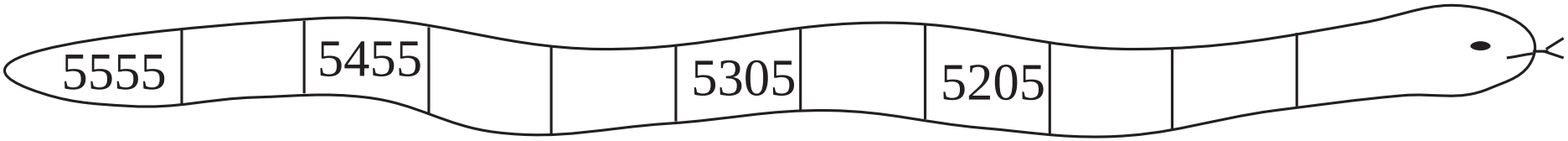
d)

		8	2	7
−	4		8	
	2	4		5

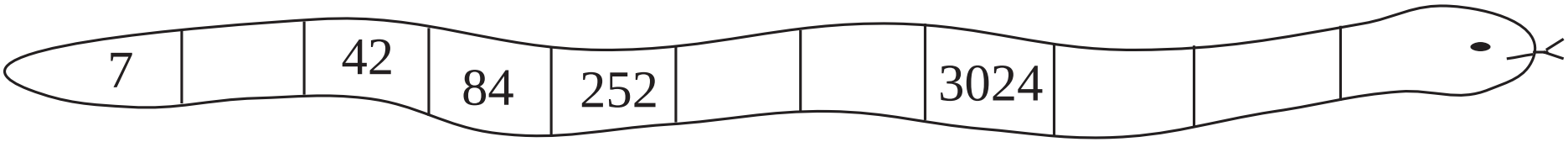
a)



b)



c)



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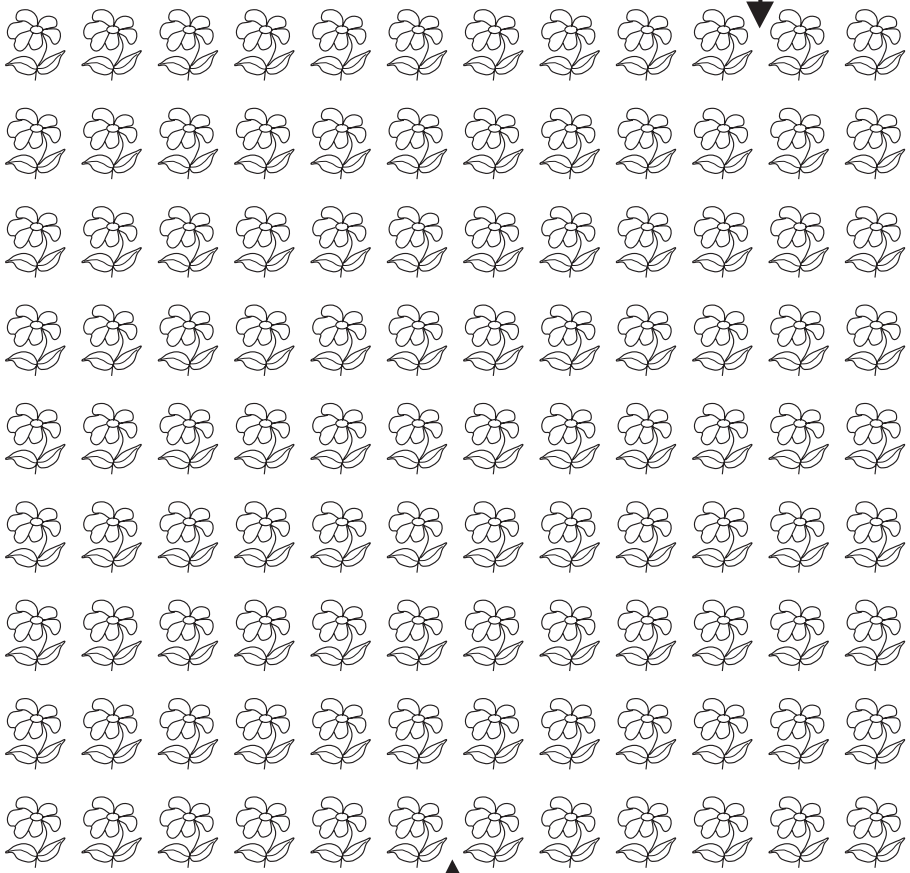

Alfie:
$$9 \times 12 = 9 \times (10 + 2)$$
$$= 9 \times 10 + 9 \times 2$$
$$= 90 + 18$$
$$= \underline{108}$$

Bella:
$$9 \times 12 = 9 \times (6 + 6)$$
$$= 9 \times 6 + 9 \times 6$$
$$= 54 + 54$$
$$= \underline{108}$$

Cilla: If there was an extra row, there would be 10 rows.

$$9 \times 12 = (10 - 1) \times 12$$
$$= 10 \times 12 - 1 \times 12$$
$$= 120 - 12$$
$$= \underline{108}$$

LP 41/2ci

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When equal numbers are added, the addition can be shortened to a multiplication.

In multiplication, the factors are inter-changeable.

If the operation contains only multiplications, then brackets do not change the product and can be deleted.

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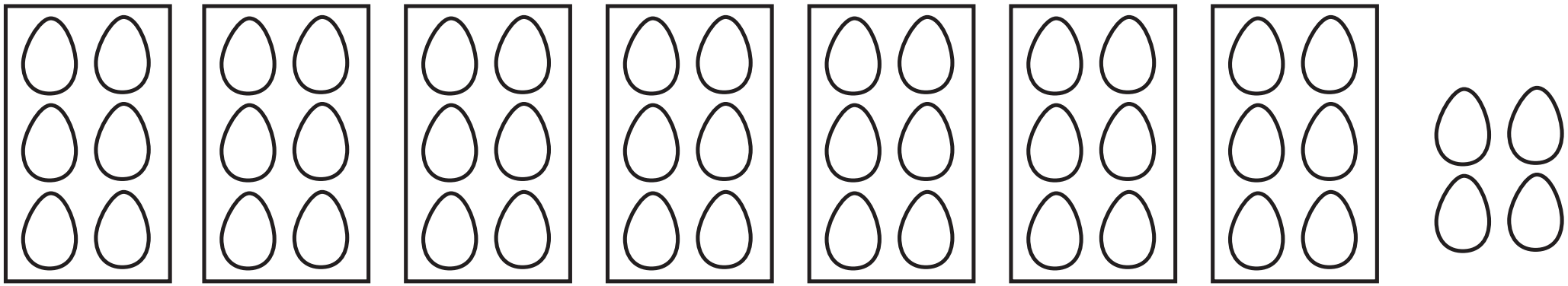
A difficult number can be multiplied by writing it as the sum or difference of simpler numbers, then multiplying each of the simpler numbers and adding or subtracting the products.

LP 41/2cii



LP 41/3a

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a)

$3 \times 4 =$	$30 \times 4 =$	$300 \times 4 =$
$13 \times 4 =$	$130 \times 4 =$	$1300 \times 4 =$
$43 \times 4 =$	$430 \times 4 =$	$4300 \times 4 =$

b)

$9 \times 2 =$	$90 \times 2 =$	$900 \times 2 =$
$19 \times 2 =$	$190 \times 2 =$	$1900 \times 2 =$
$89 \times 2 =$	$890 \times 2 =$	$8900 \times 2 =$

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a) $36 \div 6 =$ $360 \div 6 =$ $3600 \div 60 =$ $3600 \div 6 =$

b) $72 \div 8 =$ $720 \div 8 =$ $7200 \div 80 =$ $7200 \div 8 =$

c) $45 \div 5 =$ $450 \div 5 =$ $4500 \div 50 =$ $4500 \div 5 =$

d) $24 \div \square = 3$, $240 \div \square = 3$, $240 \div \square = 30$, $2400 \div \square = 30$

e) $35 \div \square = 5$, $350 \div \square = 5$, $350 \div \square = 50$, $3500 \div \square = 50$

f) $24 \div \square = 6$, $240 \div \square = 6$, $240 \div \square = 60$, $2400 \div \square = 60$

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i) The ☐ of an addition are inter-changeable.

ii) The reductant and subtrahend of a ☐ are ☐ inter-changeble.

ii) The factors of a ☐ are inter-changeable.

iv) The ☐ and ☐ of a division are ☐.

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a) $3 \times 4 =$

$20 \times 4 =$

$400 \times 4 =$

$2000 \times 4 =$

$2423 \times 4 =$

b) $5 \times 3 =$

$5 \times 80 =$

$5 \times 400 =$

$5 \times 1000 =$

$5 \times 1483 =$

c) $5 \times 7 =$

$80 \times 7 =$

$700 \times 7 =$

$785 \times 7 =$

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a) $600 \div 3 =$

$90 \div 3 =$

$7 \div 3 =$

$697 \div 3 =$

b) $4300 \div 6 =$

$190 \div 6 =$

$17 \div 6 =$

$4397 \div 6 =$

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	Th	H	T	U
	3	2	5	1
	3	2	5	1
+	3	2	5	1

Th	H	T	U		
3	2	5	1	×	3

$3 \times 1U = \square\ U$

$3 \times 5T = \square\ T = \square\ H + \square\ T$

$3 \times 2H + \square\ H = \square\ H$

$3 \times 3Th = \square\ Th$

	Th	H	T	U
	1	7	5	6
	1	7	5	6
+	1	7	5	6
	1	7	5	6

Th	H	T	U		
1	7	5	6	×	4

$4 \times 6U = \square\ U = \square\ T + \square\ U$

$4 \times 5T + \square\ T = \square\ T = \square\ H + \square\ T$

$4 \times 7H + \square\ H = \square\ H = \square\ Th + \square\ H$

$4 \times 1Th + \square\ Th = \square\ Th$

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a) *E:* .....

$$\begin{array}{r} 2\,6\,4\,7 \\ 2\,6\,4\,7 \\ 2\,6\,4\,7 \\ +\ 2\,6\,4\,7 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 2\,6\,4\,7 \times \square \\ \hline \\ \hline \end{array}$$

b) *E:* .....

$$\begin{array}{r} 1\,6\,7\,8 \\ 1\,6\,7\,8 \\ 1\,6\,7\,8 \\ 1\,6\,7\,8 \\ 1\,6\,7\,8 \\ +\ 1\,6\,7\,8 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 1\,6\,7\,8 \times \square \\ \hline \\ \hline \end{array}$$

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a) $8 \times \square = 48$ $\quad 80 \times \square = 480$ $\quad 800 \times \square = 4800$

$4 \times \square = 48$ $\quad 40 \times \square = 480$ $\quad 400 \times \square = 4800$

$16 \times \square = 48$ $\quad 160 \times \square = 480$ $\quad 1600 \times \square = 4800$

b) $36 \div \square = 4$ $\quad 3600 \div \square = 4$ $\quad \square \div 9 = 400$

$360 \div \square = 4$ $\quad 3600 \div \square = 40$ $\quad \square \div 90 = 40$

$360 \div \square = 40$ $\quad 3600 \div \square = 400$ $\quad \square \div 900 = 4$

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E: 6000 < 7640 < 9000

□ < quotient < □

	Th	H	T	U
3	7	6	4	0

Details:

7 Th ÷ 3 = □ Th, because

□ Th × 3 = □ Th, and 1 Th remains.

1 Th + 6 H = 16H; 16H ÷ 3 = □ H, because

□ H × 3 = □ H, and □ H remains.

1H + 4T = 14T; 14T ÷ 3 = □ T, because

□ T × 3 = □ T, and □ T remains.

2T + 0U = 20 U, 20 U ÷ 3 = □ U, because

□ U × 3 = □ U,

and □ U remains.

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a)

	Th	H	T	U
5	6	1	5	7

← 1 Th × 5

← □ H × 5

← □ T × 5

← □ U × 5

Ch:

					×	5
				+		

b)

	Th	H	T	U
8	7	3	4	8

← □ H × 8

← □ T × 8

← □ U × 8

Ch:

					×	8
				+		

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a)

V =

V =

V =

b)

V =

V =

V =

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a) 9360 $\xrightarrow{\div 2}$ ☐ $\xrightarrow{\div 3}$ ☐ $\xrightarrow{\div 4}$ ☐ $\xrightarrow{\div 5}$ ☐ $\xrightarrow{\div 6}$ ☐

b) 9360 $\xrightarrow{\div 4}$ ☐ $\xrightarrow{\div 5}$ ☐ $\xrightarrow{\div 2}$ ☐ $\xrightarrow{\div 6}$ ☐ $\xrightarrow{\div 3}$ ☐

c) 9360 $\xrightarrow{\div 3}$ ☐ $\xrightarrow{\div 6}$ ☐ $\xrightarrow{\div 5}$ ☐ $\xrightarrow{\div 4}$ ☐ $\xrightarrow{\div 2}$ ☐

LP 44/9

a) 4200 $\xrightarrow{\div 4}$ ☐ $\xrightarrow{\div 5}$ ☐ $\xrightarrow{\div 6}$ ☐ $\xrightarrow{\times 8}$ ☐ $\xrightarrow{\times 5}$ ☐

b) 4200 $\xrightarrow{\div 10}$ ☐ $\xrightarrow{\div 3}$ ☐ $\xrightarrow{\div 4}$ ☐ $\xrightarrow{\times 5}$ ☐ $\xrightarrow{\times 6}$ ☐

c) 4200 $\xrightarrow{\div 7}$ ☐ $\xrightarrow{\div 10}$ ☐ $\xrightarrow{\div 5}$ ☐ $\xrightarrow{\times 25}$ ☐ $\xrightarrow{\times 2}$ ☐

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×	2	4	6	8	10
2					
4					
6					
8					
10					

×	1	3	5	7	9
1					
3					
5					
7					
9					

×	1	3	5	7	9
2					
4					
6					
8					
10					

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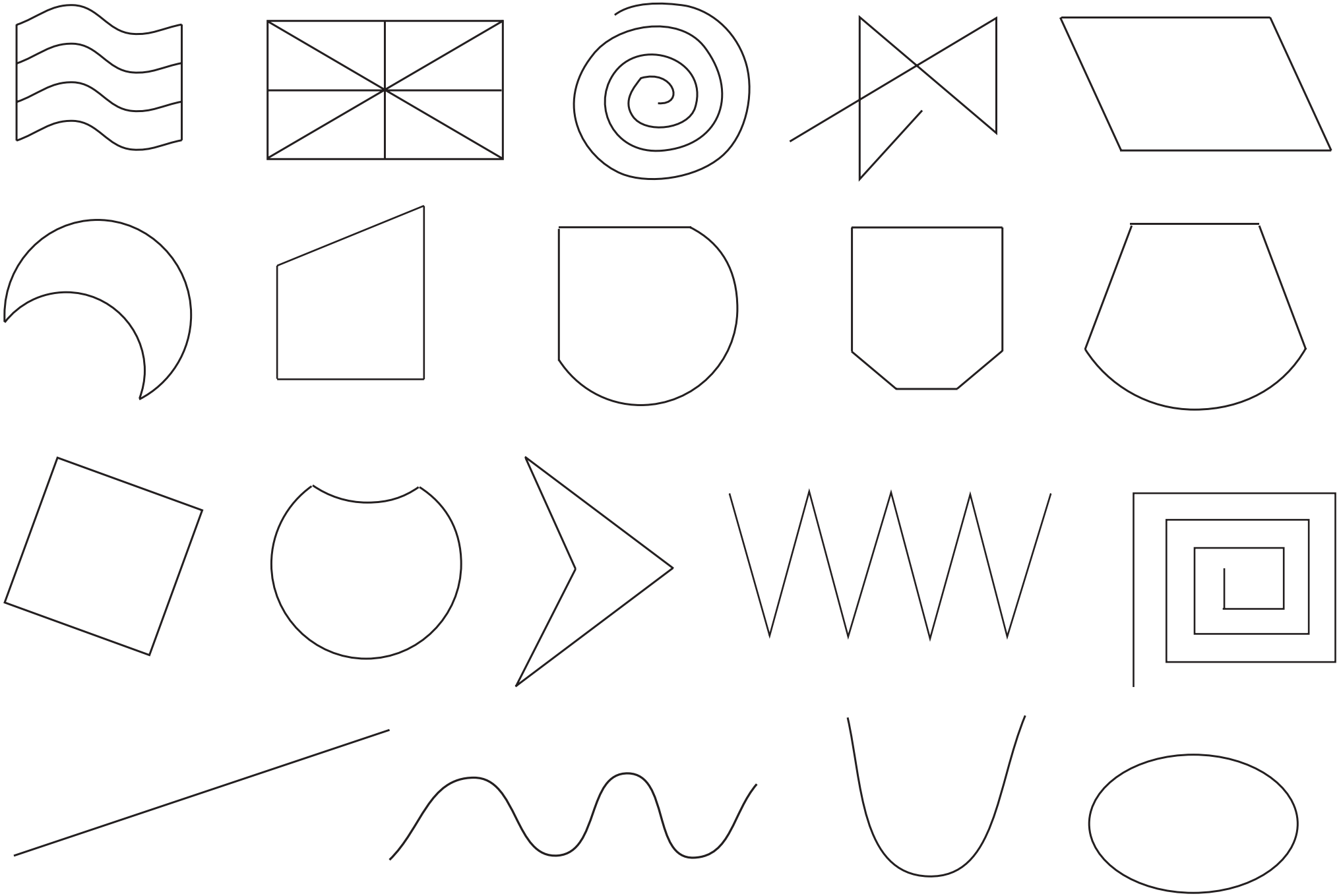

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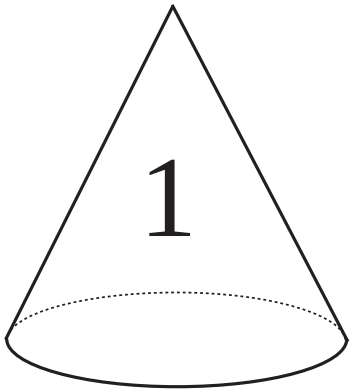

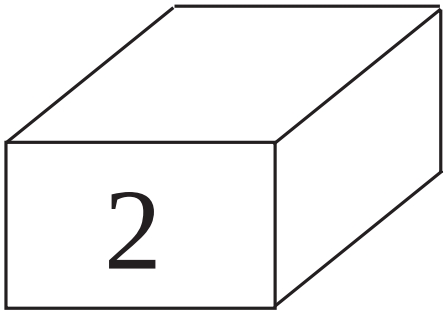

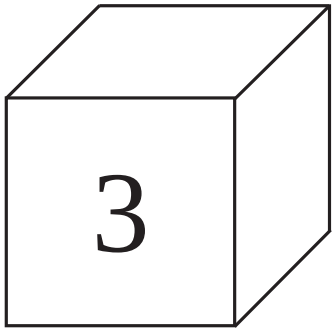

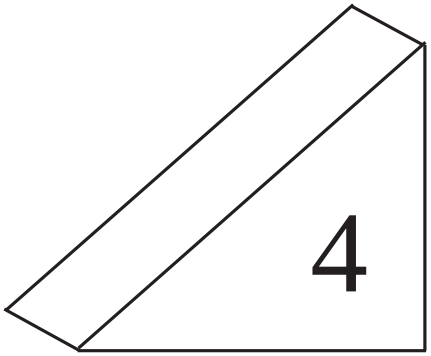

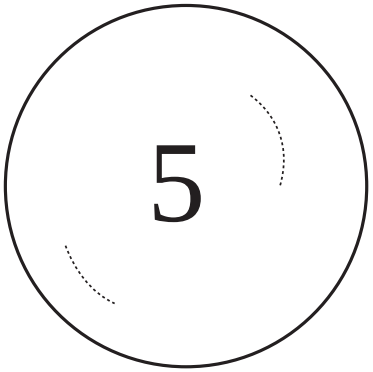

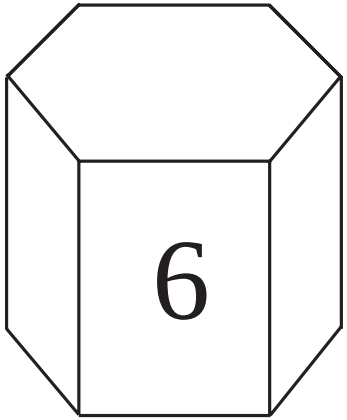

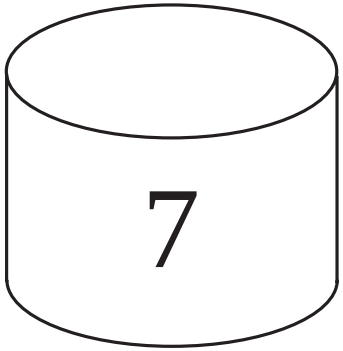

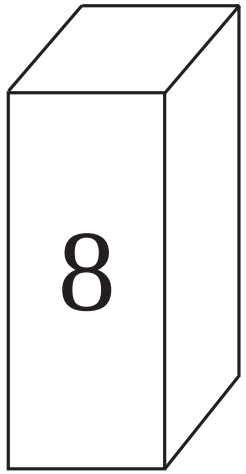

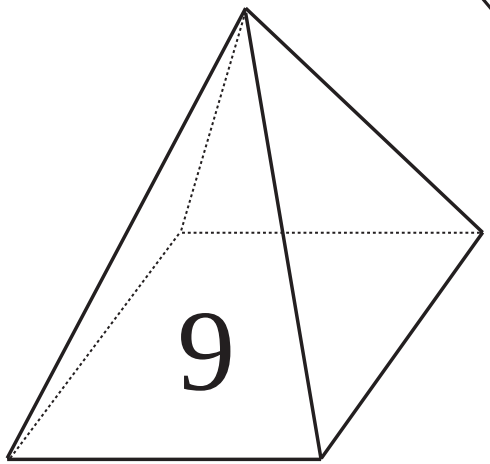

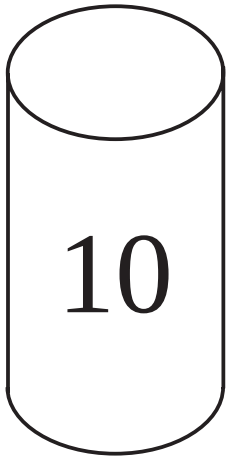

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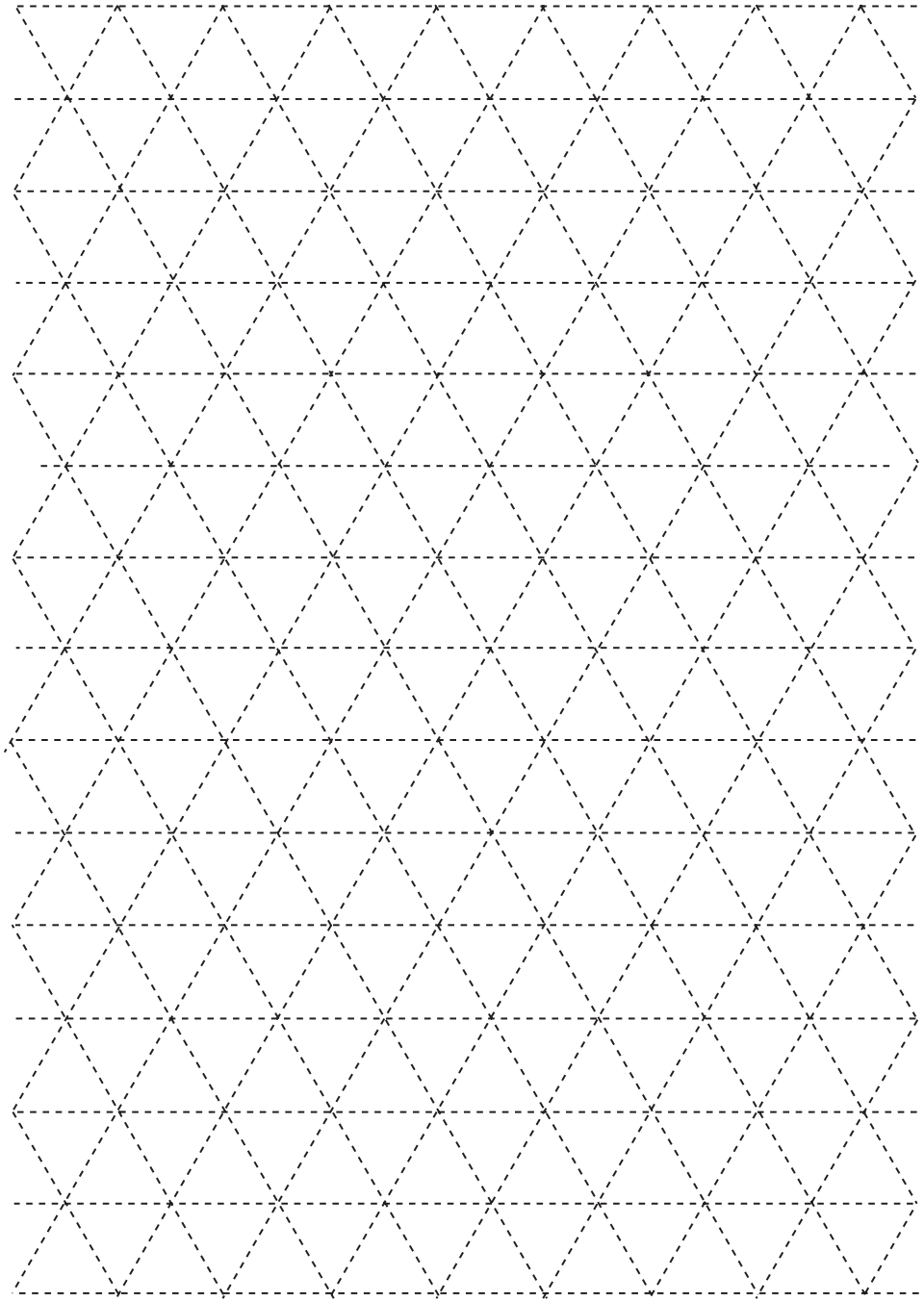

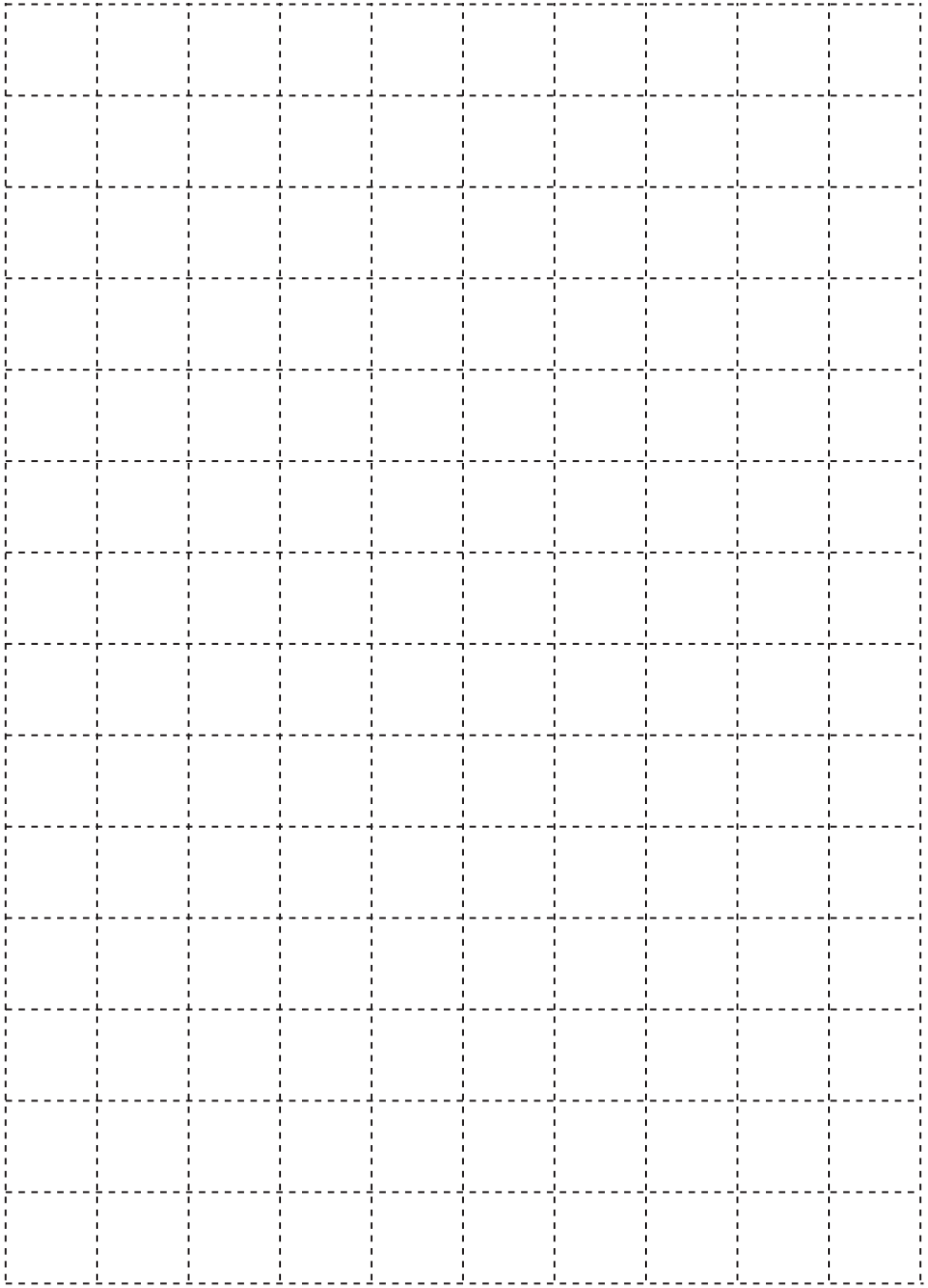

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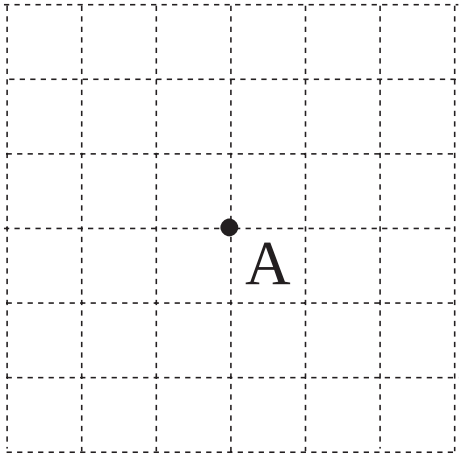
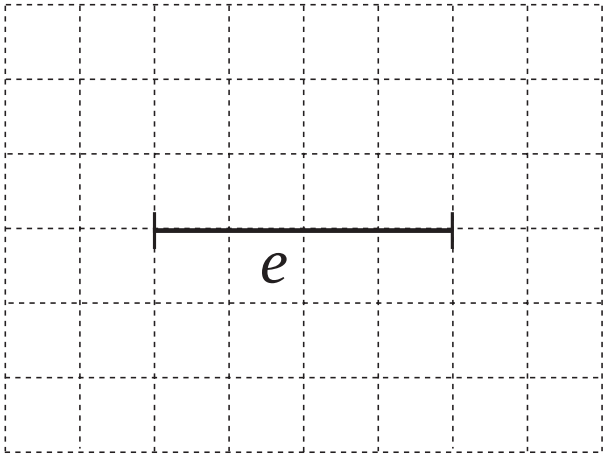
Mark grid points which are 1 cm away from:

i) point A



ii) line segment *e*



iii) line *f*

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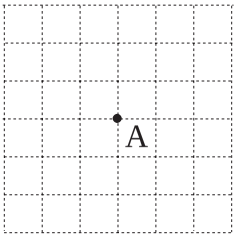
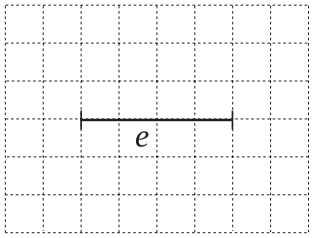
Mark grid points which are 1 cm away from:

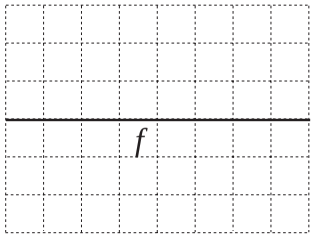
i) point A



ii) line segment e



iii) line f

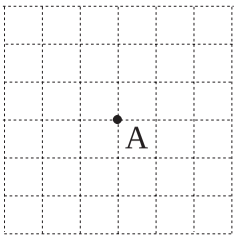


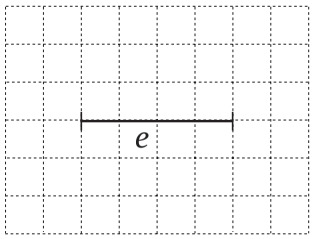
Mark grid points which are 1 cm away from:

i) point A

ii) line segment e

iii) line f



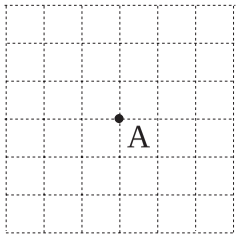


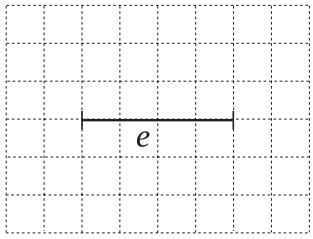
Mark grid points which are 1 cm away from:

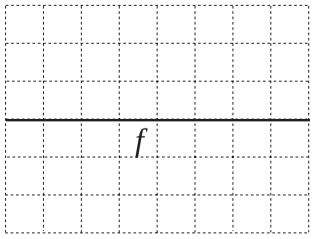
i) point A

ii) line segment e

iii) line f







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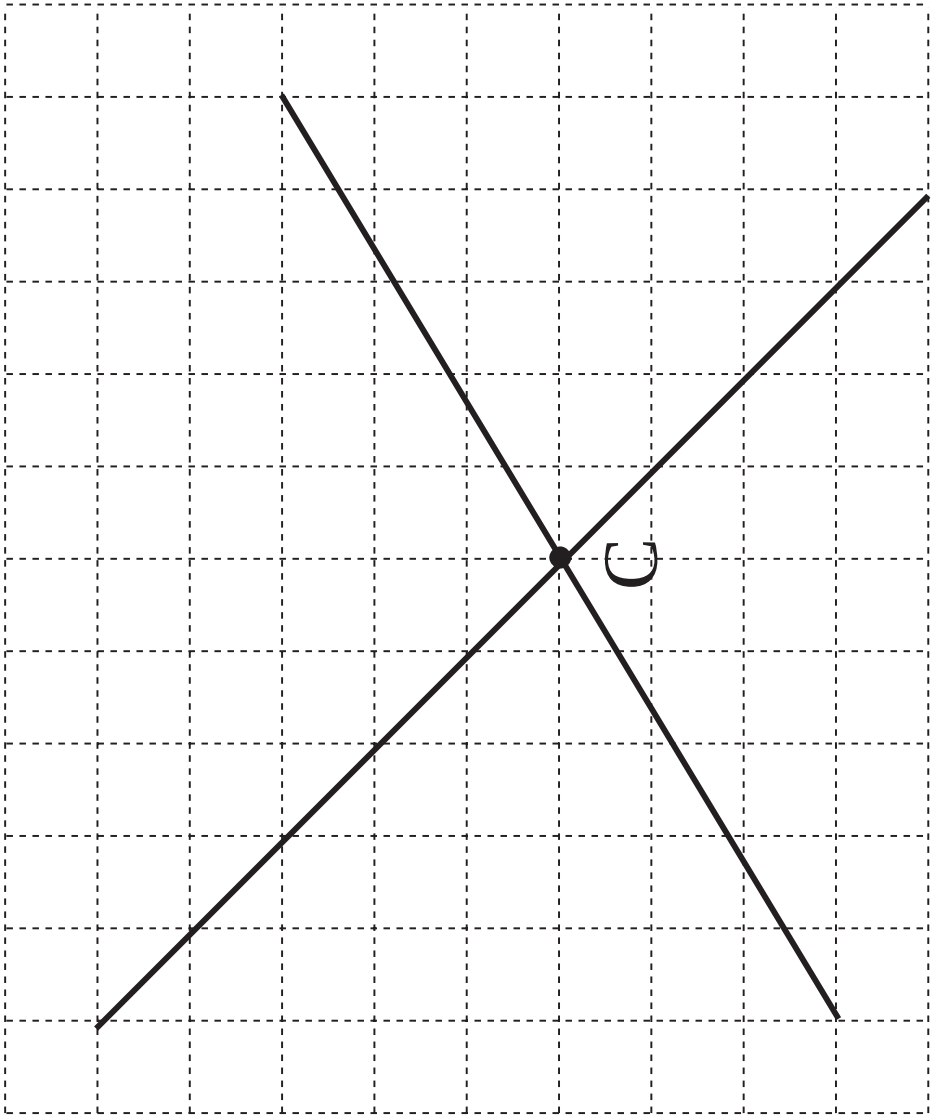
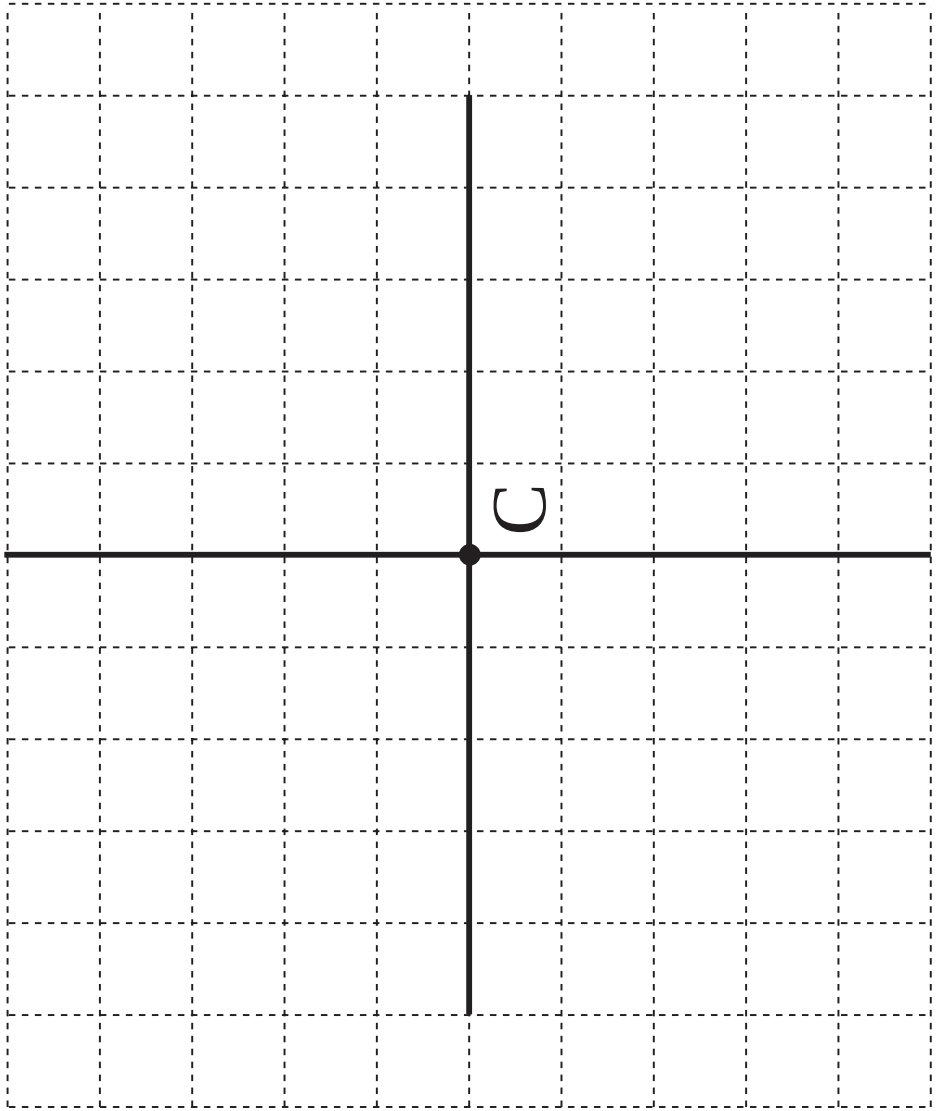
a)



b)



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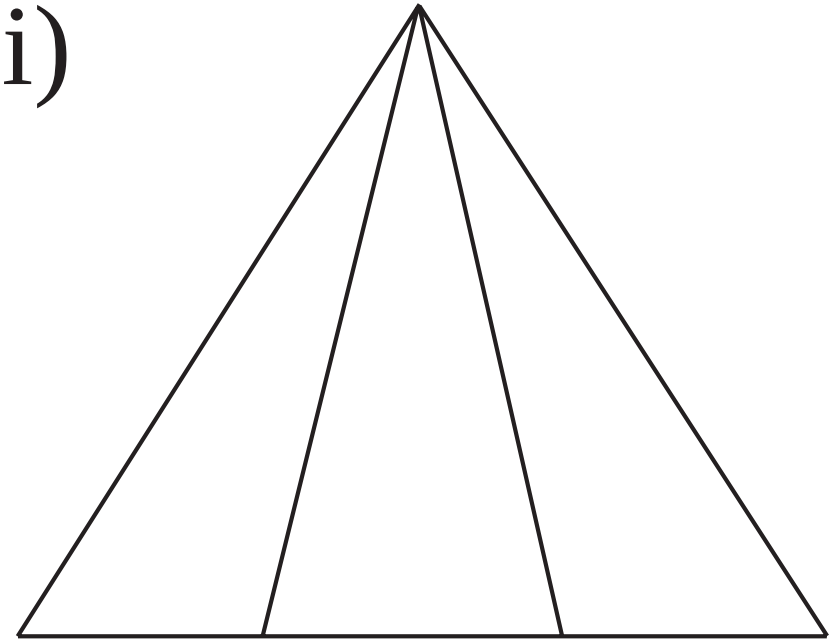
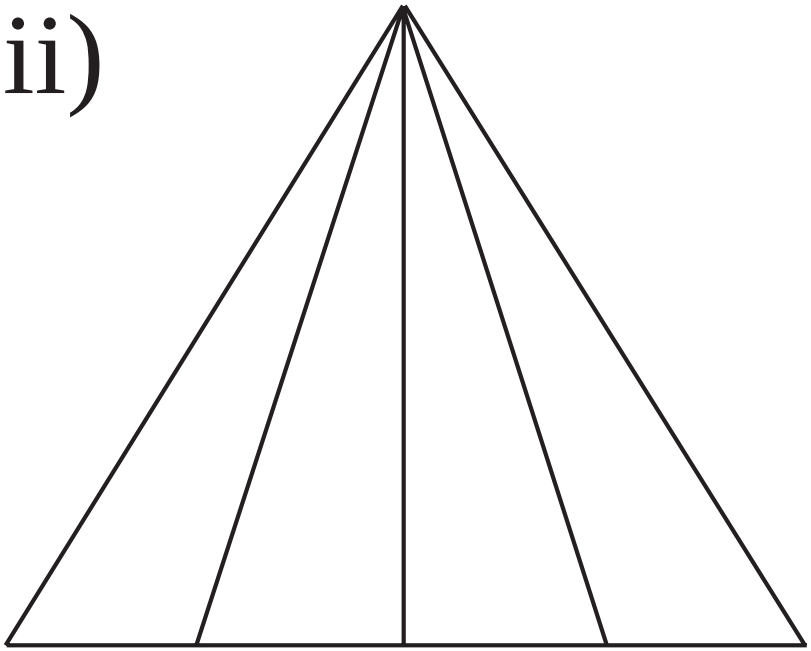
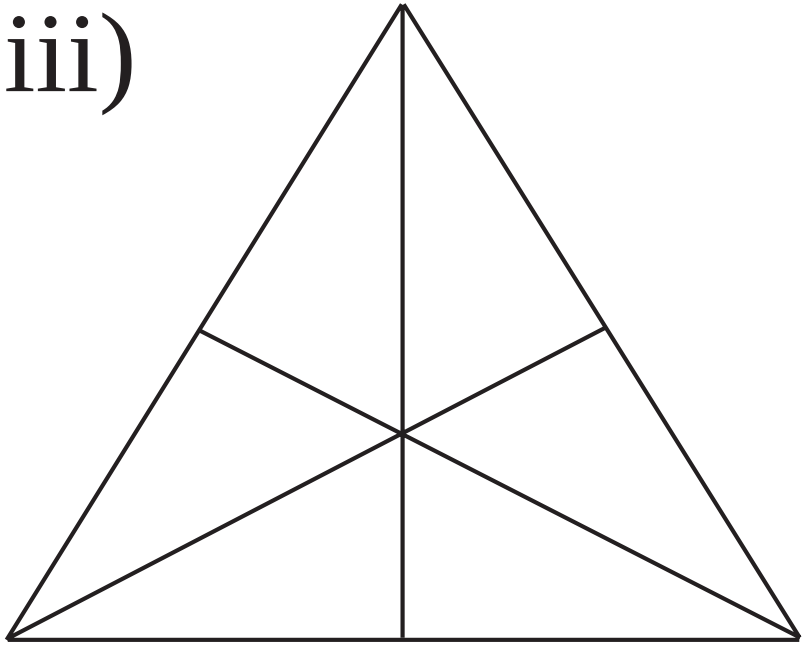
i)



ii)



iii)



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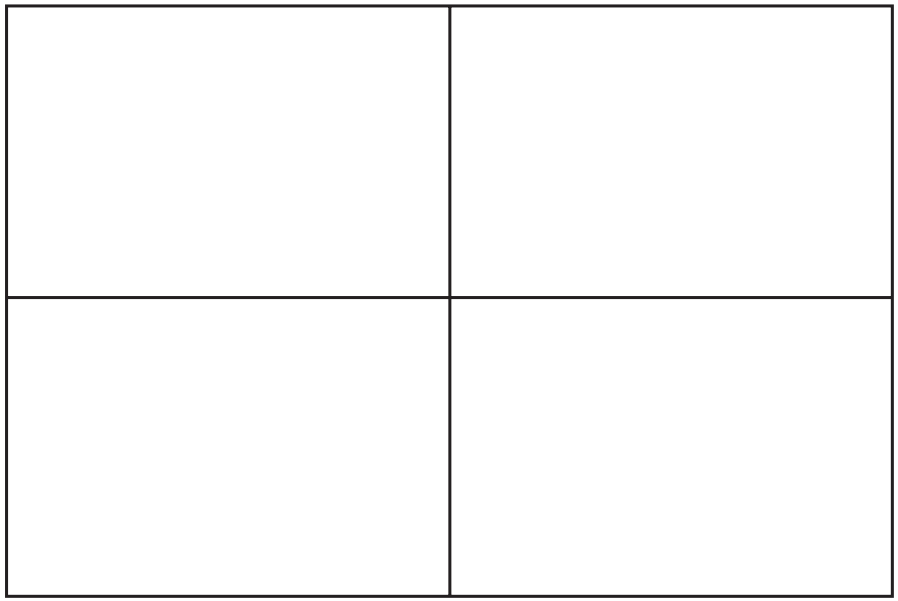
a)



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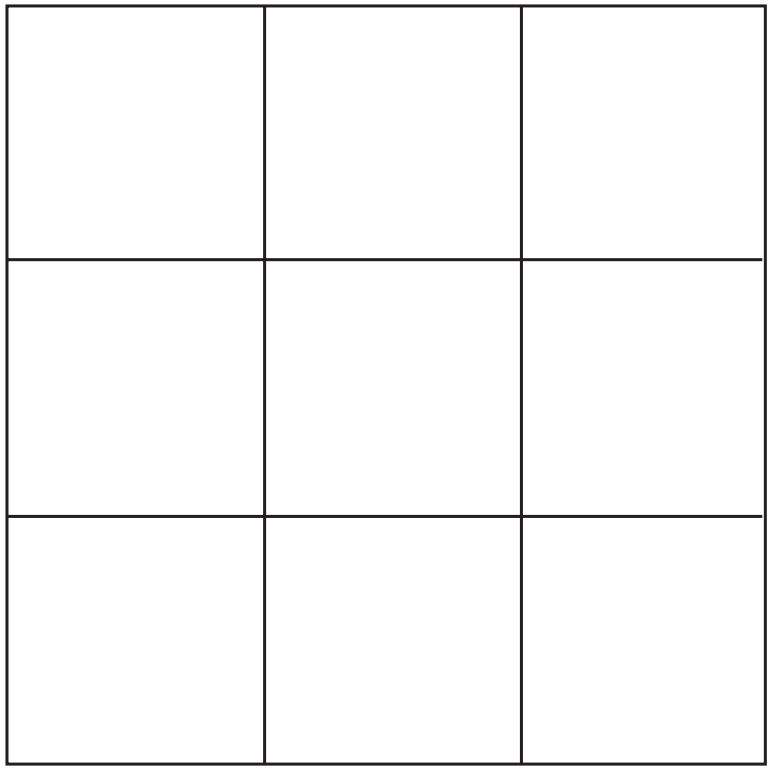
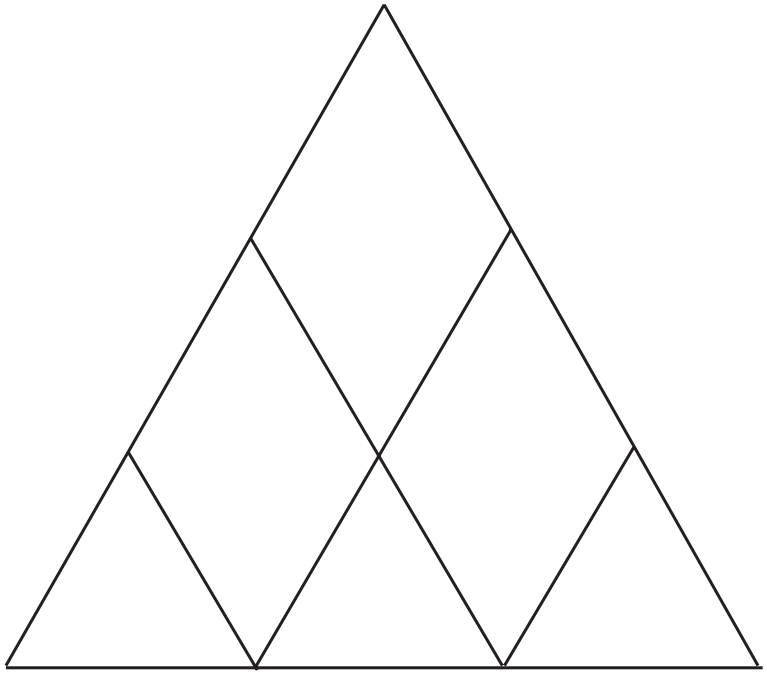


c)



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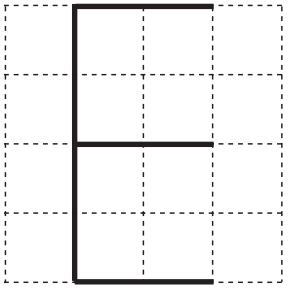
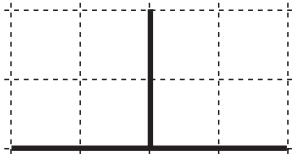


a)

c)



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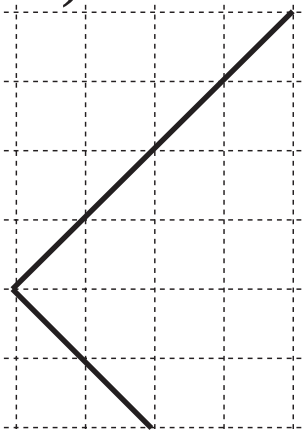

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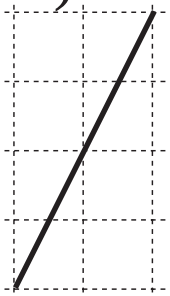
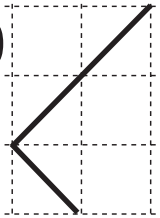


b)

d)



g)

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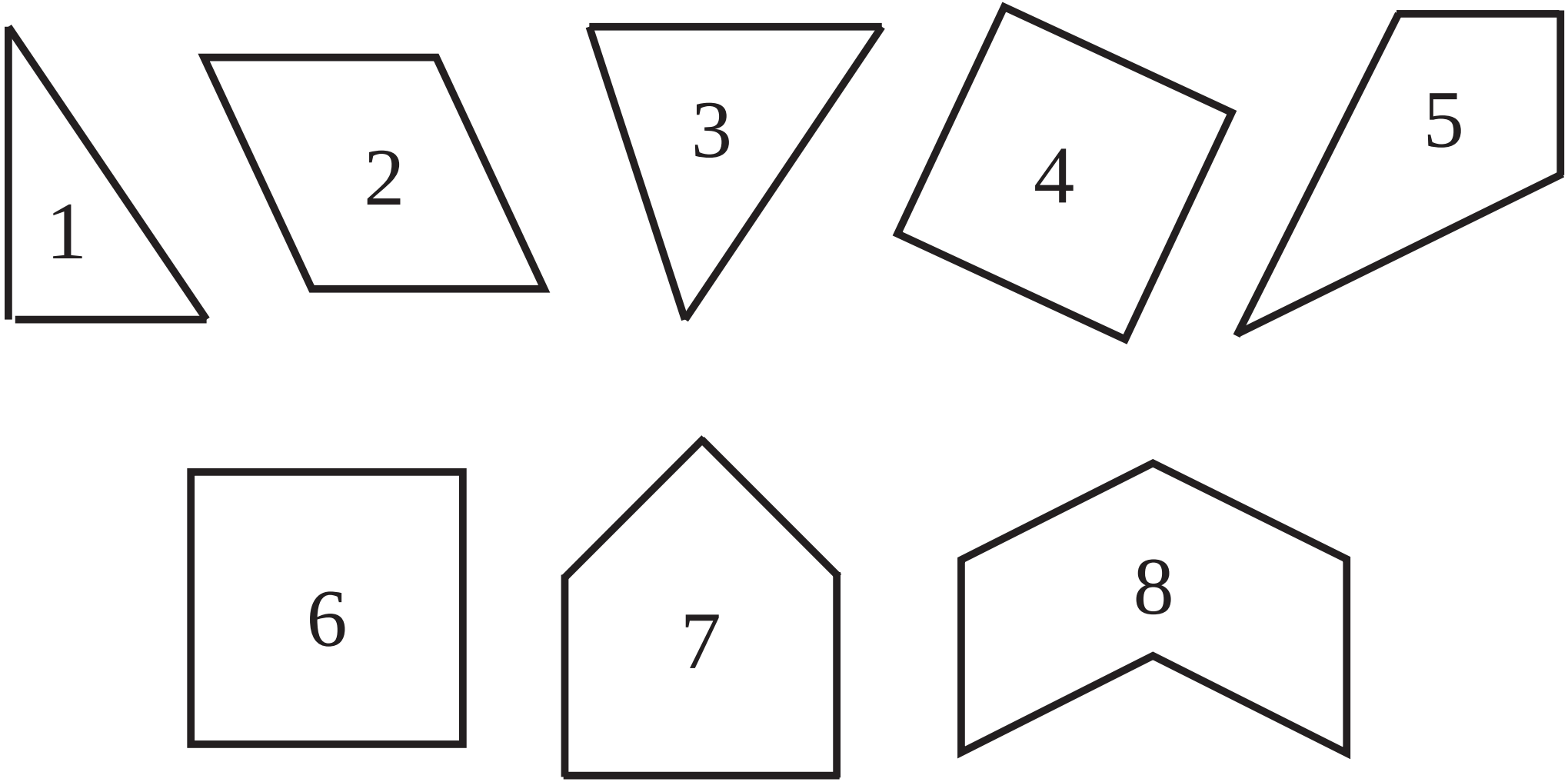

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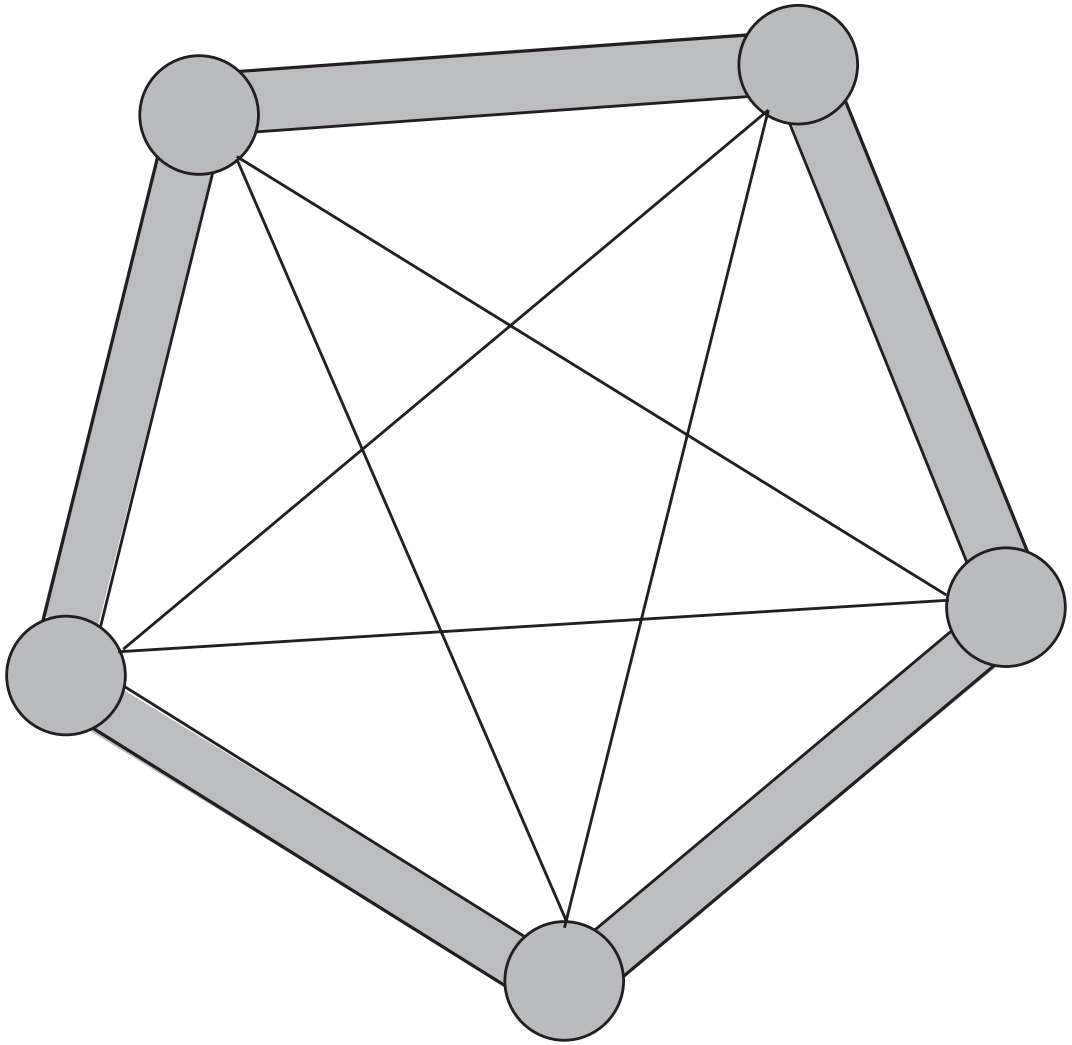

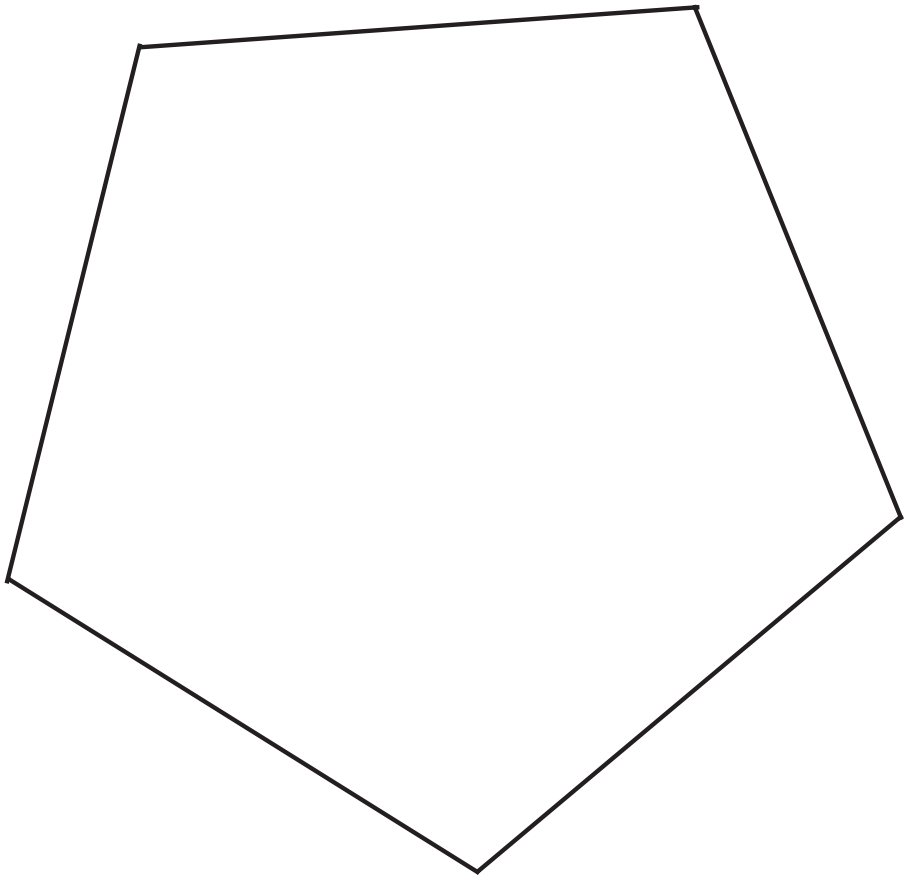

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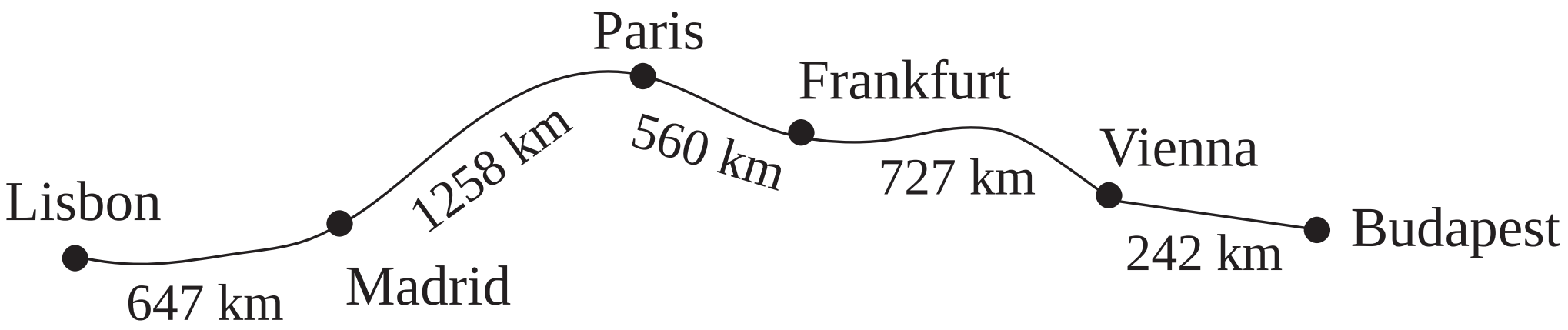

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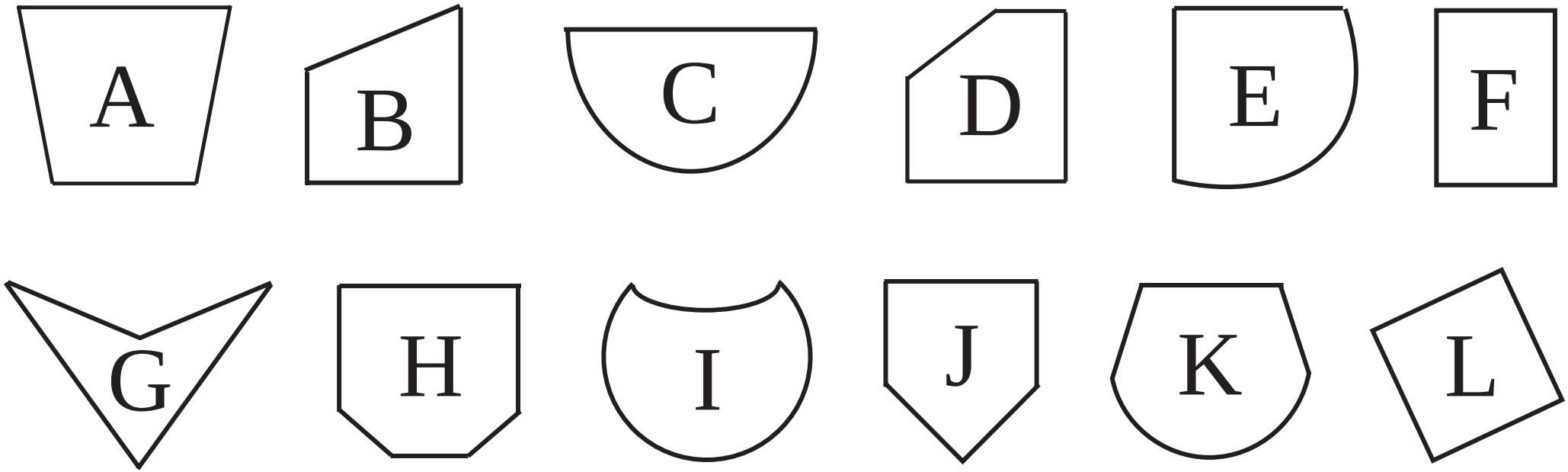

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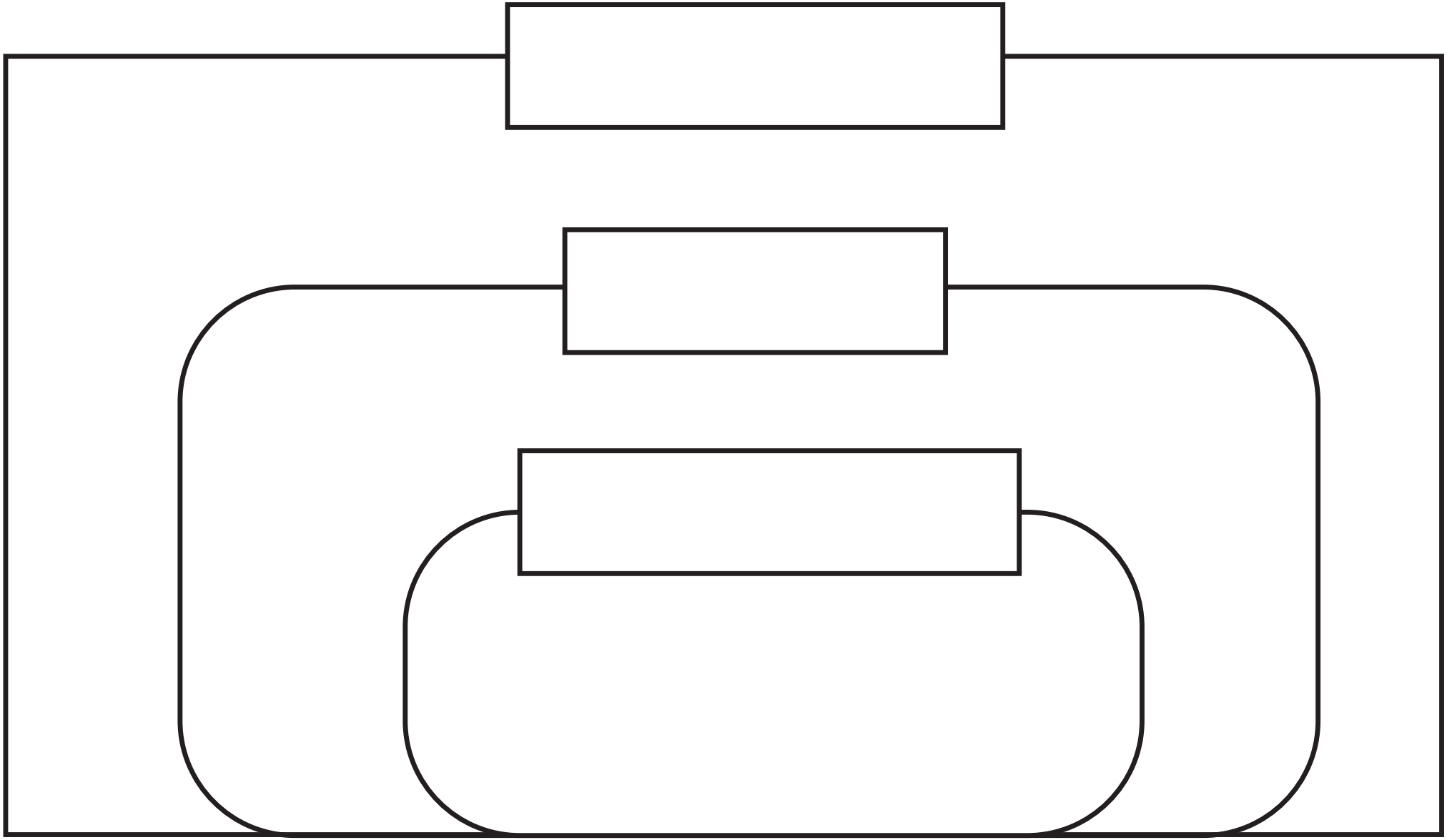

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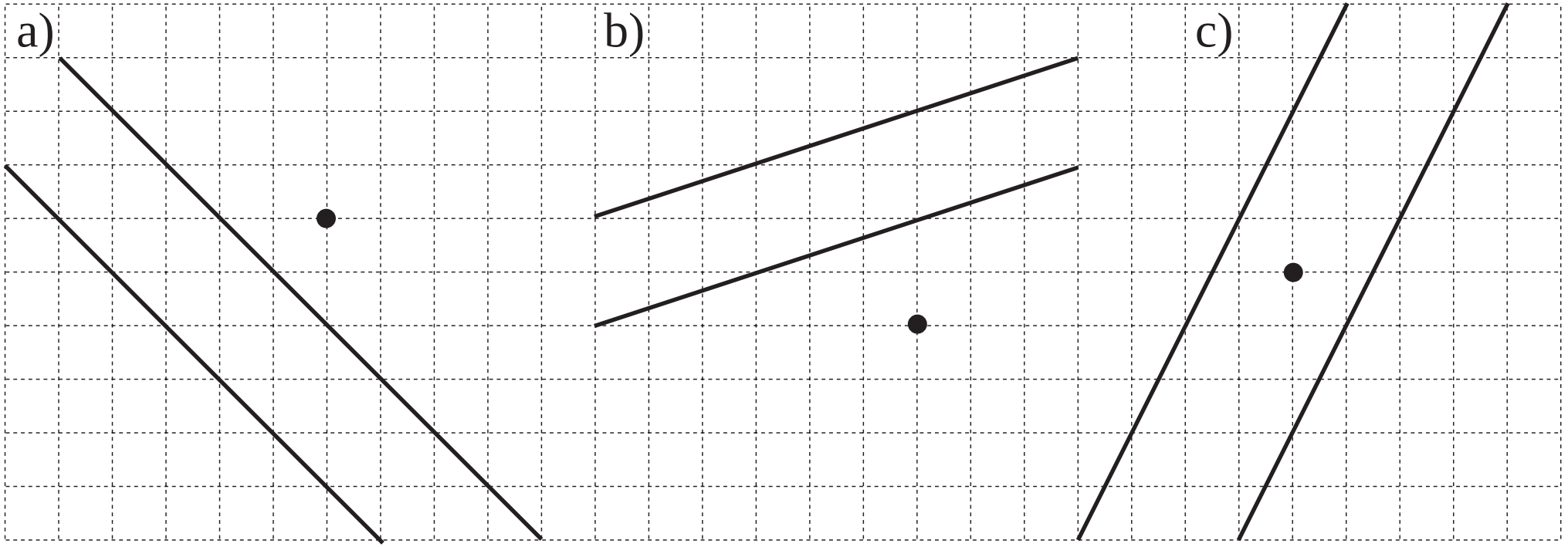

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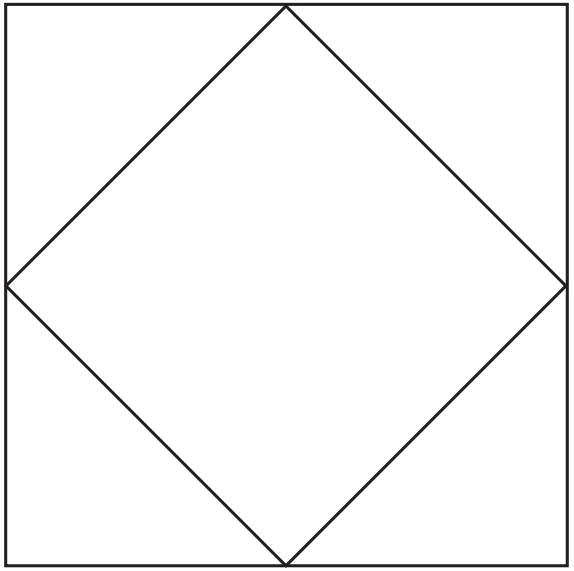
a)



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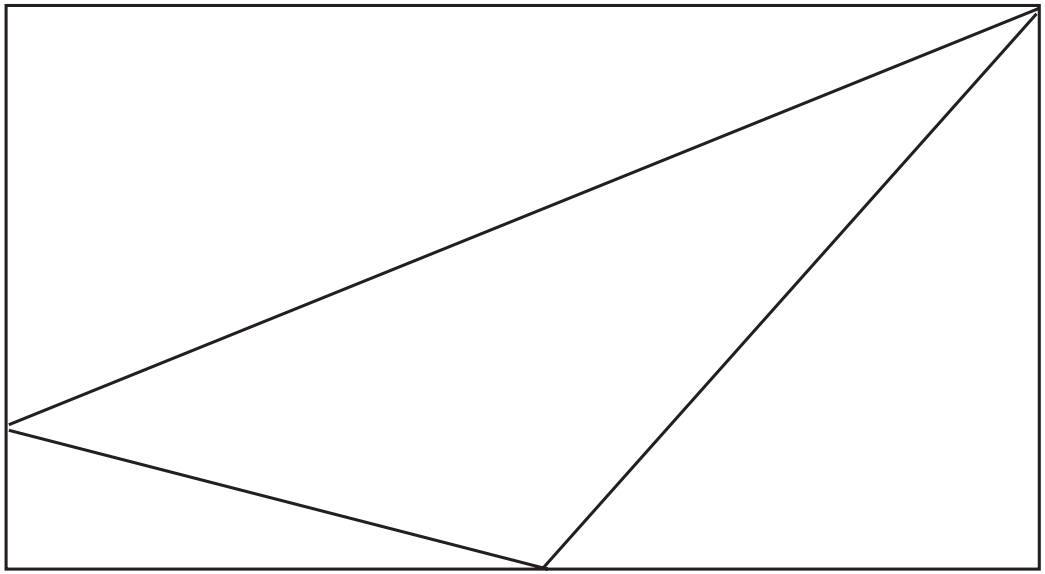

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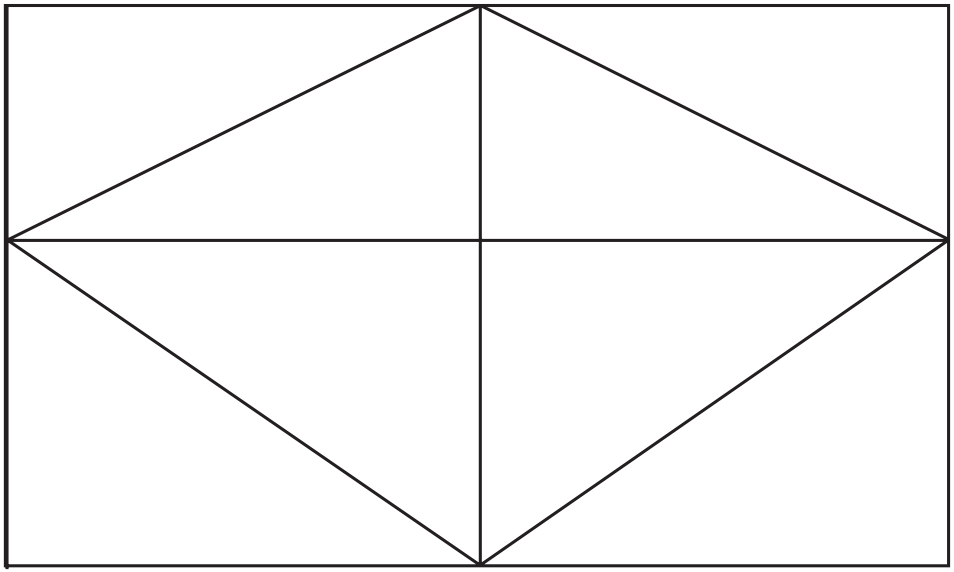

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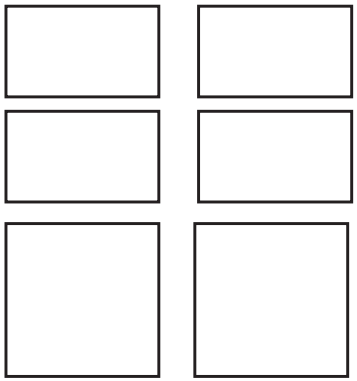
a



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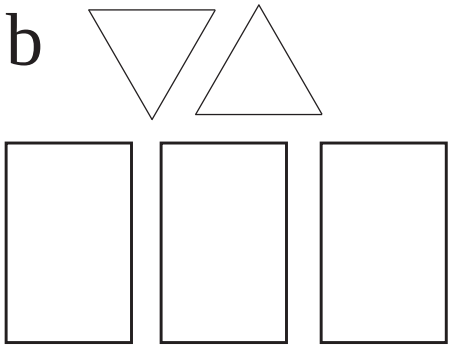

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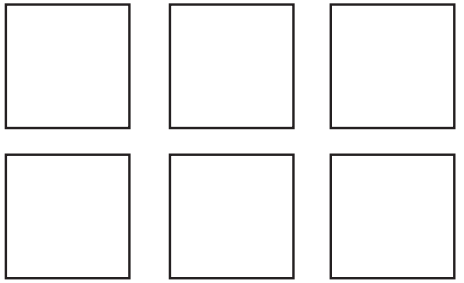

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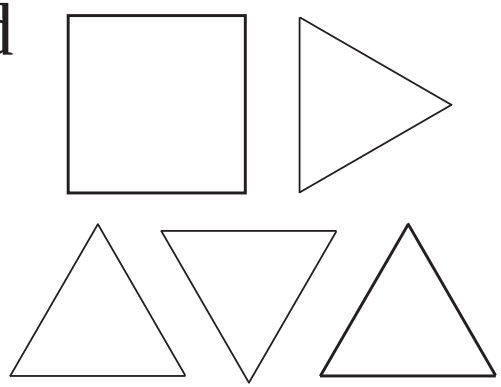

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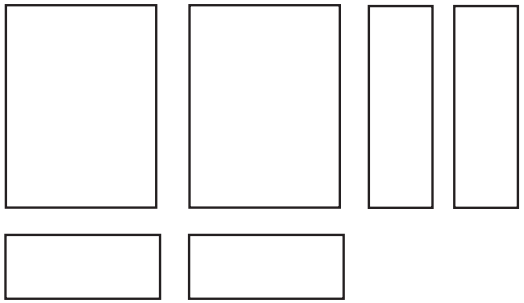

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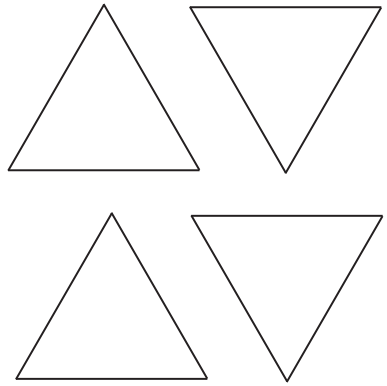

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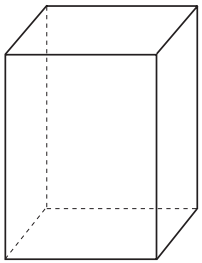

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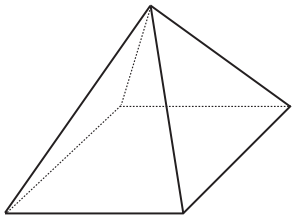

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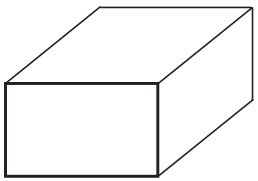

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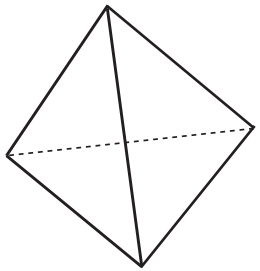

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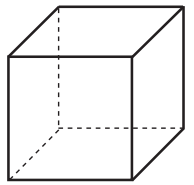

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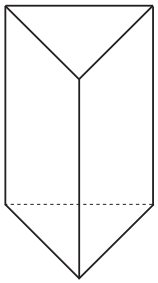

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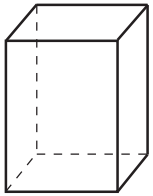
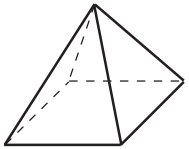
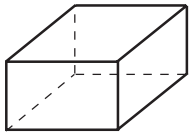
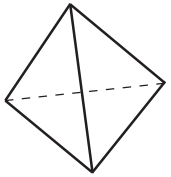
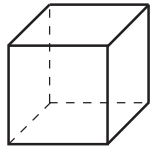
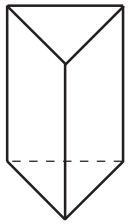
	1	2	3	4	5	6
	Cuboid 	Square-based pyramid 	Cuboid 	Triangle-based pyramid 	Cube 	Triangle-based prism 
Edges						
Faces						
Vertices						

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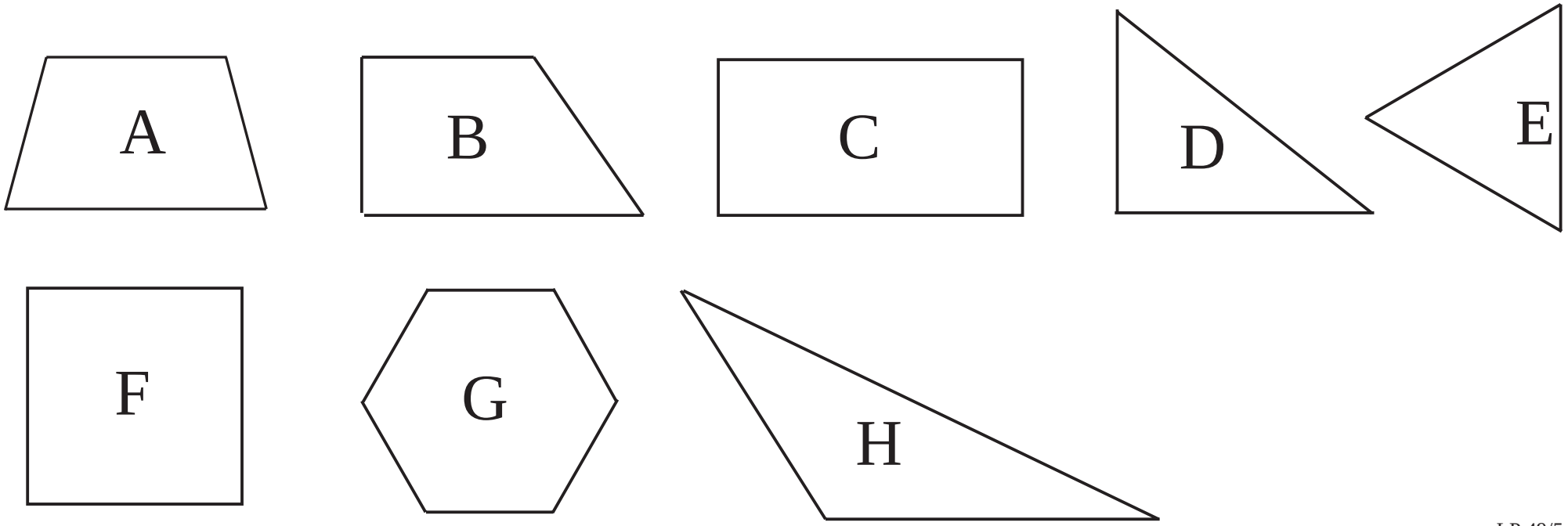

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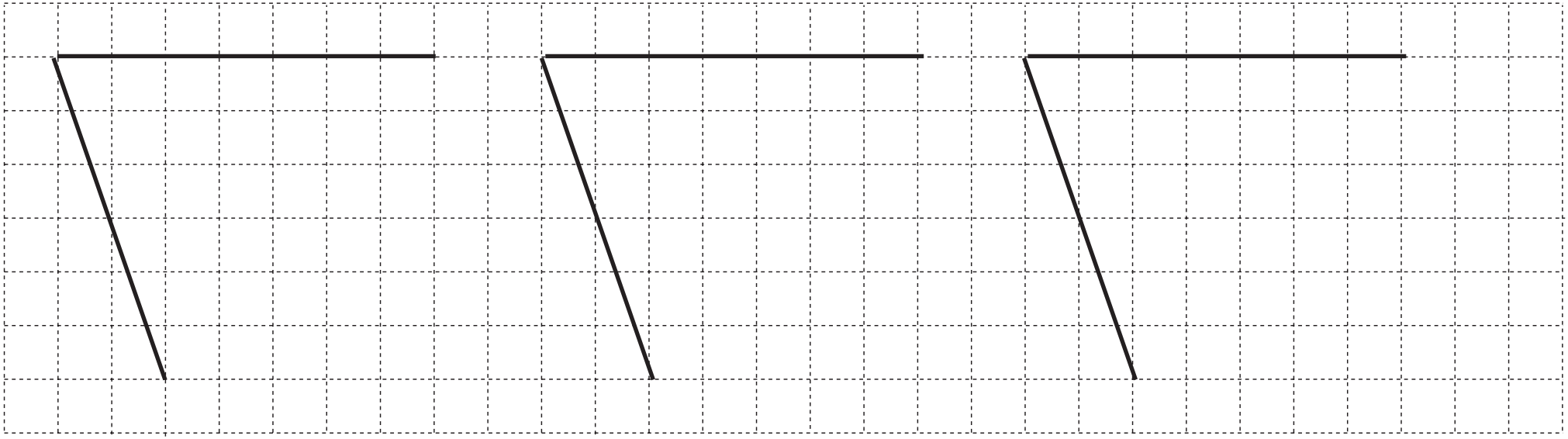

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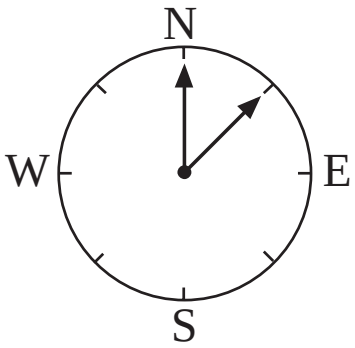
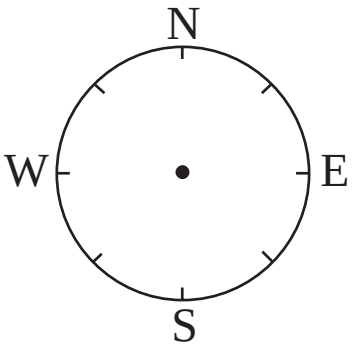
a) turns to the right:

i) from N to NE



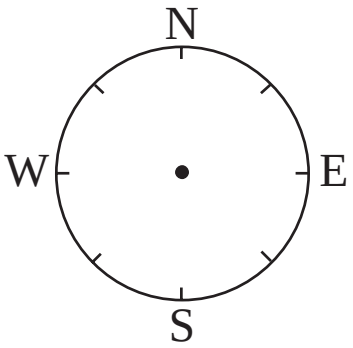
☐ right angle

ii) from N to SE



☐ right angles

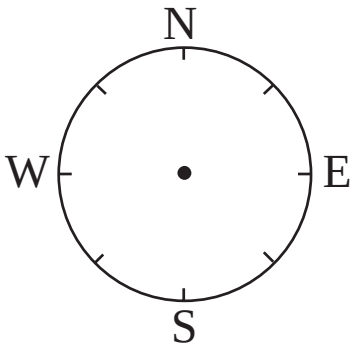
iii) from E to SE



☐ right angle

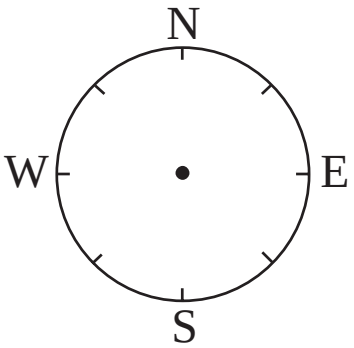
b) turns to the left:

i) from N to NW



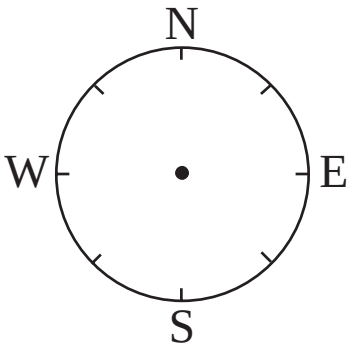
☐ right angle

ii) from N to SW



☐ right angles

iii) from W to SW



☐ right angle

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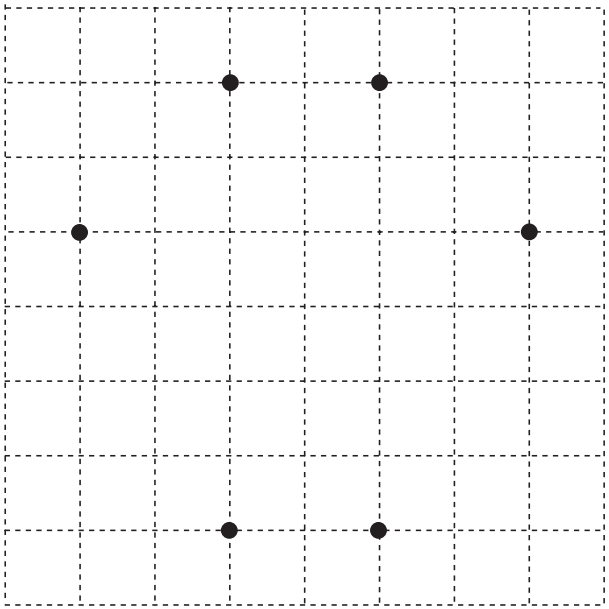

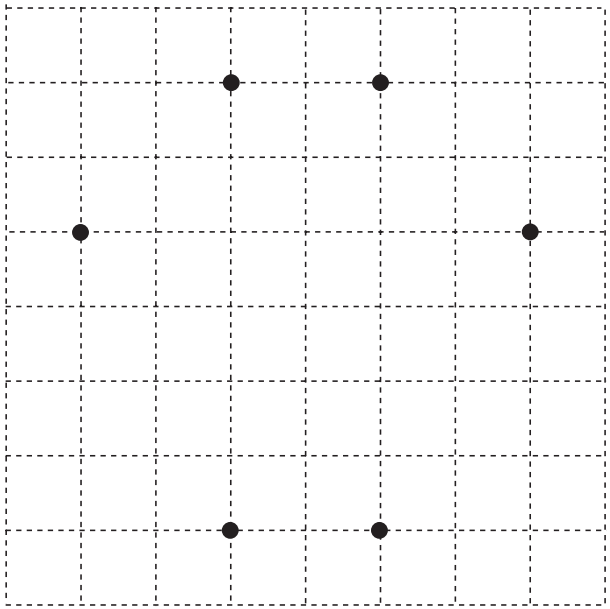

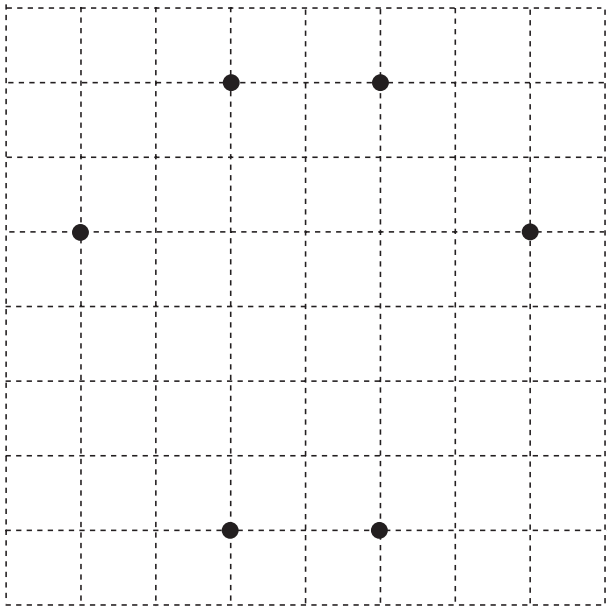

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