

a) $\frac{2}{5} \times \square = \frac{4}{5}$

b) $\square \times \frac{5}{9} = \frac{15}{9}$

c) $\frac{3}{10} \times \square = \frac{30}{10}$

d) $\frac{5}{8} \times \square = \frac{5}{4}$

e) $\frac{\square}{6} \times 4 = \frac{10}{3}$

f) $\frac{5}{\square} \times \square = 10$

LP 112/4

<i>a</i>	$\frac{15}{3}$	10	$\frac{1}{7}$	$\frac{2}{9}$	$\frac{3}{10}$			$\frac{10}{9}$
<i>b</i>	1	2	$\frac{1}{35}$			$\frac{3}{10}$	$\frac{1}{15}$	

LP 113/9

a) $\frac{5}{8} + \frac{3}{16} =$

c) $\frac{3}{7} + \frac{1}{8} =$

e) $\frac{12}{15} - \frac{2}{5} =$

g) $\frac{5}{6} \times 6 =$

i) $\frac{5}{8} \times 4 =$

k) $\frac{5}{7} \div 5 =$

b) $\frac{3}{15} + \frac{3}{15} =$

d) $\frac{3}{4} - \frac{5}{8} =$

f) $\frac{3}{8} - \frac{3}{12} =$

h) $\frac{4}{9} \times 6 =$

j) $\frac{6}{7} \div 3 =$

l) $\frac{5}{6} \div 4 =$

a) $\frac{\square}{9} < \frac{11}{9}$

b) $\frac{5}{53} < \frac{\triangle}{53} < \frac{10}{53}$

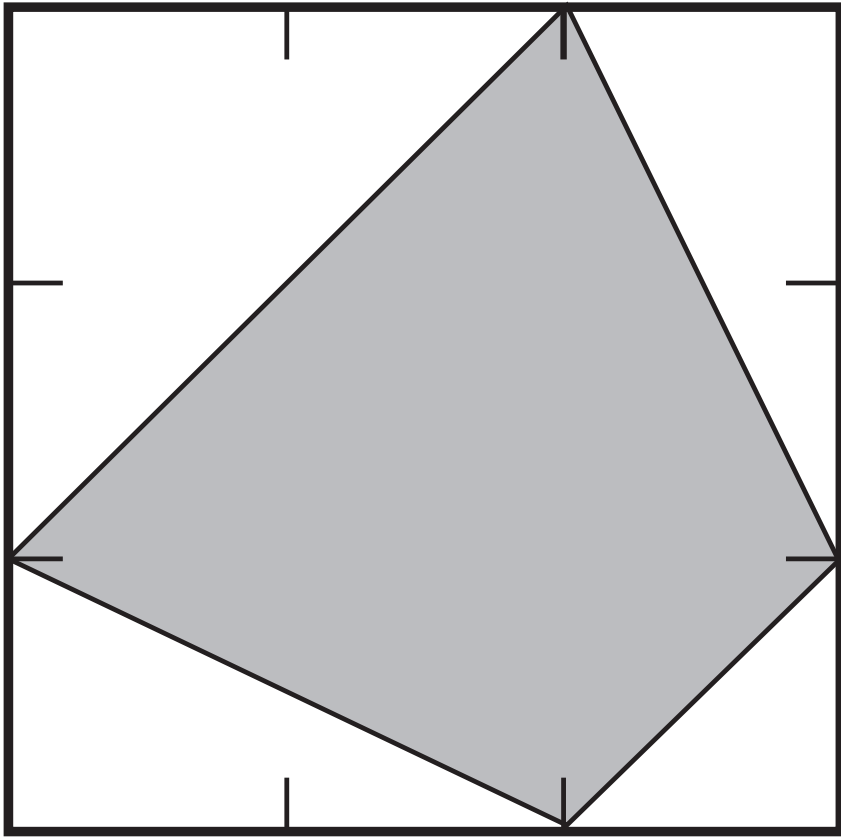
\square :

\triangle :

c) $\frac{7}{3} - \frac{\bigcirc}{3} > 1$

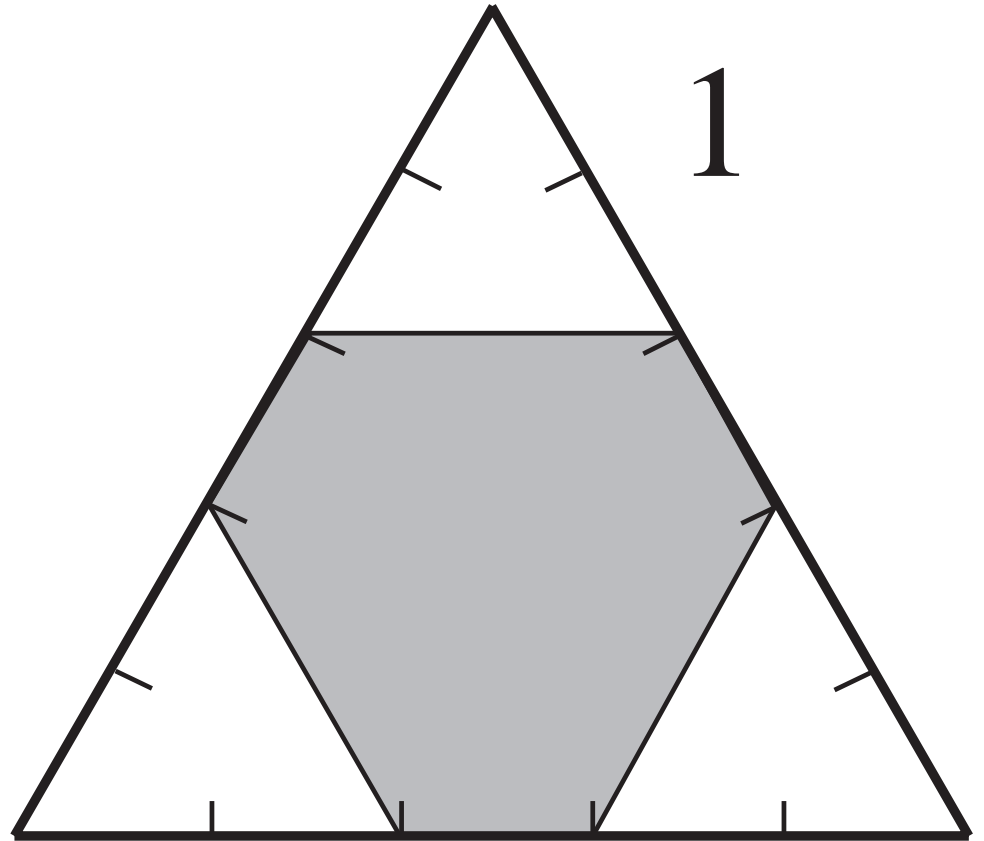
\bigcirc :

a)



1

b)



1

a) $\frac{3}{8} + \frac{7}{20} =$

c) $\frac{2}{9} + \frac{3}{8} =$

e) $\frac{5}{12} - \frac{1}{3} =$

g) $\frac{3}{4} \times 8 =$

i) $\frac{7}{8} \times 4 =$

k) $\frac{4}{7} \div 2 =$

b) $\frac{4}{7} + \frac{11}{21} =$

d) $\frac{5}{6} - \frac{1}{3} =$

f) $\frac{11}{15} - \frac{3}{5} =$

h) $\frac{2}{15} \times 5 =$

j) $\frac{5}{9} \div 5 =$

l) $\frac{3}{8} \div 4 =$

Thousands Th	Hundreds H	Tens T	Units U	tenths t	hundredths h	thousandths th
1	4 0	5 0 0	5 0 0	0 7 2 9 0	3 2 6 5	



Th	H	T	U	t	h	th

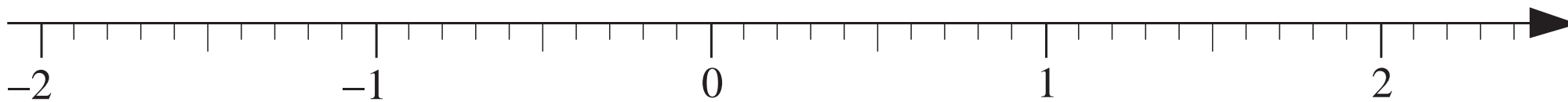


LP 116/4

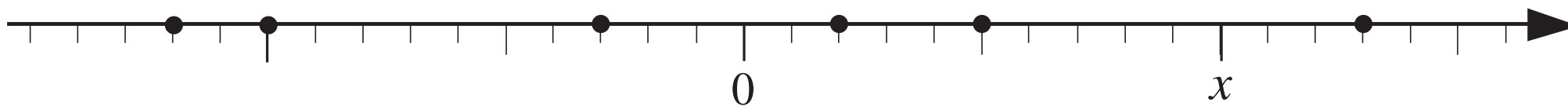


LP 116/5

1.4 -0.60 0.35 -1.2 1.7 0.65 $\frac{80}{100}$ $1 + \frac{9}{10}$



LP 116/6



a) $x = 10$:

.....

b) $x = 1$:

.....

c) $x = 0.1$

.....

LP 116/7

a) $3.02 =$

.....

b) $0.7 =$

.....

c) $30.46 =$

.....

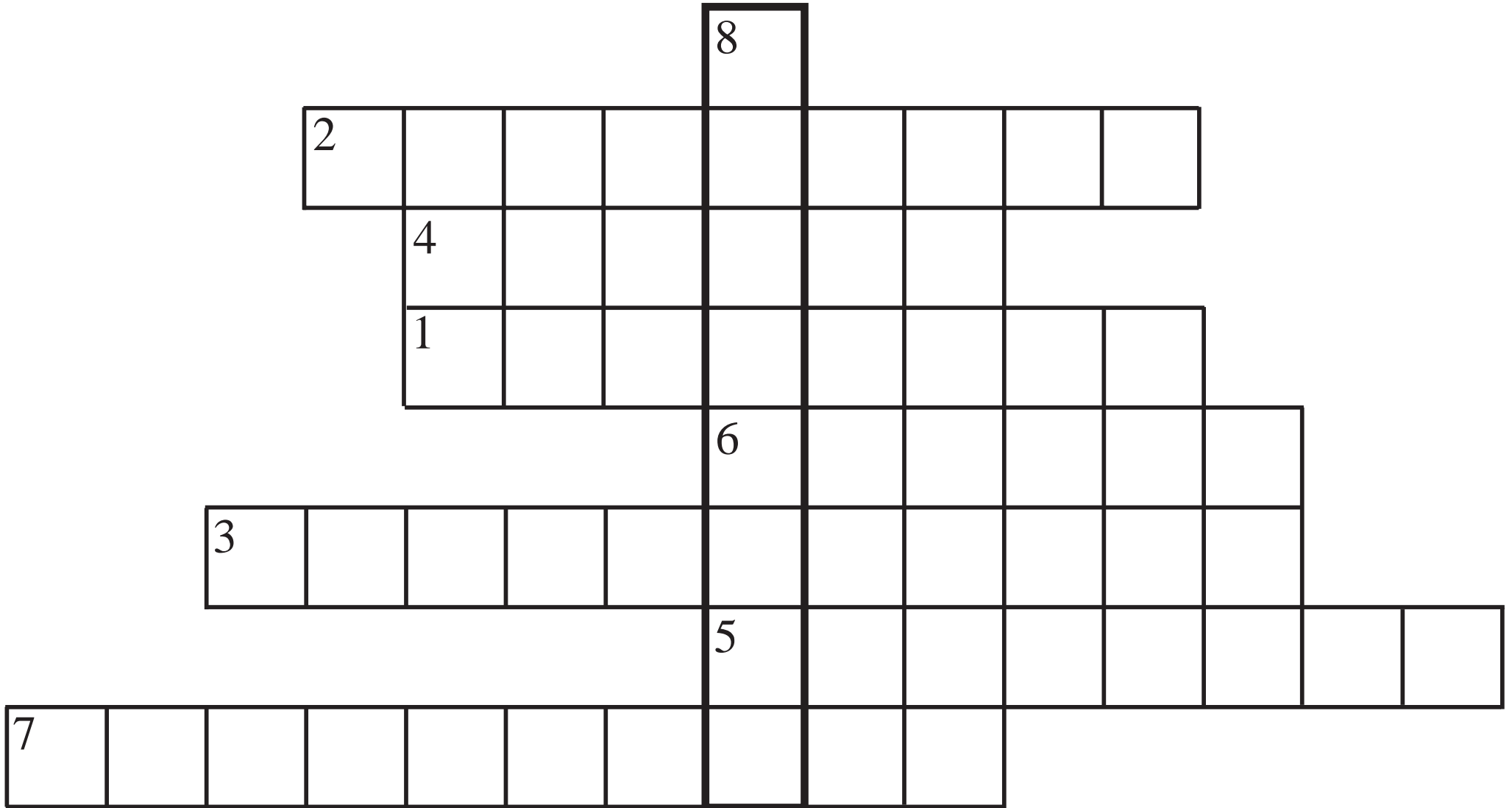
d) $500.8 =$

.....

e) $100.09 =$

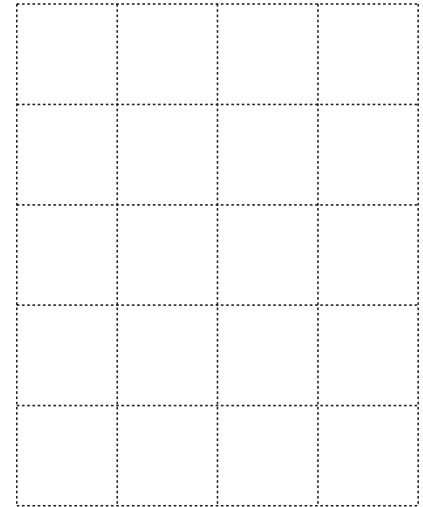
.....

H	T	U	t	h

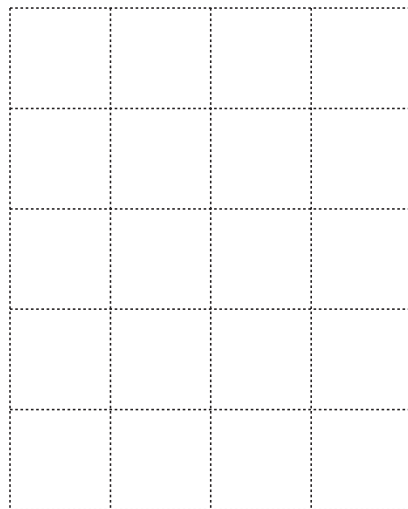


10 m	1 m	10 cm	1 cm

Th	H	T	U



T	U	t	h



In cm:

In m:

10 m	1 m	10 cm	1 cm

Th	H	T	U

T	U	t	h

LP 118/4

	2	0	.	4	8	=	20	+	$\frac{4}{10}$	+	$\frac{8}{100}$	=
-	1	4	.	1	6	=						

LP 118/5

a)

	2	2	.	8	3
-	1	3	.	0	0

-

T	U	t	h

Check:

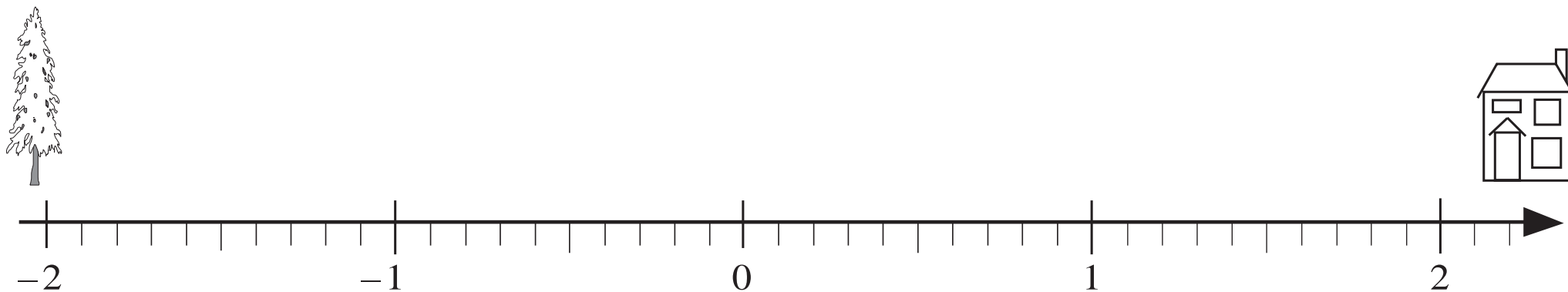
b)

	2	2	.	0	0
-	1	8	.	4	3

-

T	U	t	h

Check:



LP 119/4

a)

	5	6	.	3	
		2	.	8	4
+		0	.	9	1

b)

	1	3	.	0	
	8	4	.	5	6
+		7	.	4	

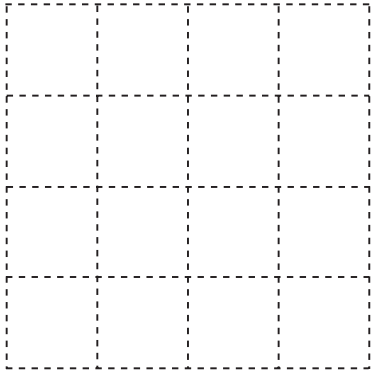
c)

	5	0	.	0	
		0	.	7	
+		6	.	0	3

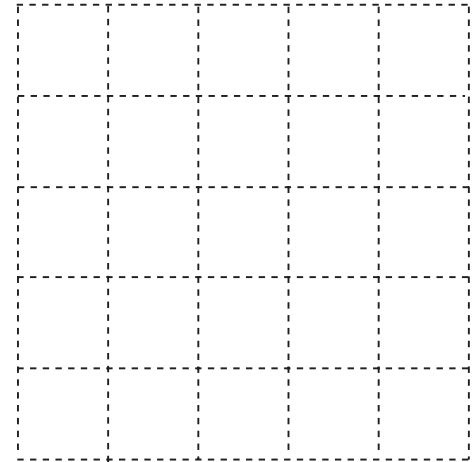
d)

	1	0	.	5	6
		0	.	0	4
+		5	.	3	

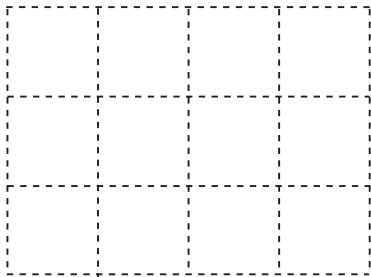
a) $4.12 + 29.35 + 0.87$

 \approx


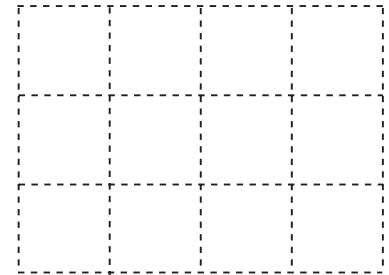
b) $7.05 + 27.6 + 6.715 + 37.17$

 \approx


c) $34.67 - 25.58 \approx$



d) $85.49 - 16 \approx$



a)
$$\begin{array}{r} 94.65 \\ - 61.32 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 24.15 \\ - \quad 9.8 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 61.64 \\ - 34.8 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 40.0 \\ - 25.35 \\ \hline \end{array}$$

LP 119/7

a)
$$\begin{array}{r} 27.3 \\ + \quad 6.75 \\ + \quad 0.83 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 27.0 \\ + \quad 76.27 \\ + \quad 8.9 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 0.07 \\ + 10.1 \\ + 3.85 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 20.0 \\ + \quad 0.99 \\ + \quad 4.55 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 37.63 \\ - 23.31 \\ \hline \end{array}$$

f)
$$\begin{array}{r} 142.15 \\ - \quad 3.6 \\ \hline \end{array}$$

g)
$$\begin{array}{r} 86.1 \\ - \quad 5.25 \\ \hline \end{array}$$

h)
$$\begin{array}{r} 70.0 \\ - 34.29 \\ \hline \end{array}$$

LP 120/4

$$\text{a) } 18 + \frac{7}{10} + \frac{3}{1000} =$$

$$\text{b) } \frac{8}{100} + \frac{7}{1000} =$$

$$\text{c) } 70 + \frac{3}{10} + \frac{8}{1000} =$$

$$\text{d) } 8 + \frac{1}{100} + \frac{37}{1000} =$$

	T	U	t	h	th
a)					
b)					
c)					
d)					
Total					

a) 1 hour = min

b) 0.1 hour = min

c) 0.2 hour = min

d) 0.9 hour = min

e) 1.3 hours = min

f) 2.5 hours = min

g) 6 min = hour

h) 18 min = hour

i) 90 min = hours

j) 3 min = hour

k) 9 min = hour

l) 45 min = hour

H	T	U	t	h

+

a) $26150 \text{ mm} = \boxed{} \text{ cm} = \boxed{} \text{ m}$

b) $789 \text{ ml} = \boxed{} \text{ cl} = \boxed{} \text{ litres}$

c) $6370 \text{ g} = \boxed{} \text{ kg}$ d) $1.843 \text{ kg} = \boxed{} \text{ g}$

e) $4.518 \text{ m} = \boxed{} \text{ cm} = \boxed{} \text{ mm}$

f) $3.601 \text{ litres} = \boxed{} \text{ cl} = \boxed{} \text{ ml}$

g) $5.8 \text{ m} = \boxed{} \text{ cm} = \boxed{} \text{ mm}$

a 10 sheet notepad:

a 100 leaf exercise book:

a 1000 leaf encyclopaedia:

a 10 000 sheet pack of paper:

Th	H	T	U	t	h

LP 122/5

100 pearls:

10 pearls:

1 pearl:

H	T	U	t	h

In kg:

LP 122/6

$$\text{£}1 = 100 \text{ p}$$

a) How many £s is: 10 times 100 times 1000 times

i) 70 p

£

£

£

ii) £2 70 p?

£

£

£

b) How many £s is: 1 tenth 1 hundredth 1 thousandth

i) of £630

£

£

£

ii) of £47 50 p?

£

£

£

a) $0.3 \times 100 =$

b) $3.45 \times 10 =$

c) $605 \div 100 =$

d) $574 \div 10 =$

e) $0.87 \times 10 =$

f) $0.303 \times 100 =$

g) $1.39 \div 10 =$

h) $45.7 \div 100 =$

i) $0.07 \times 10 =$

j) $0.05 \times 100 =$

k) $0.81 \div 10 =$

l) $30.06 \div 10 =$

a) $21 \times 4 =$

$2.1 \times 4 =$

b) $63 \times 2 =$

$6.3 \times 2 =$

c) $2 \times 4 =$

$0.2 \times 4 =$

d) $43 \times 4 =$

$4.3 \times 4 =$

e) $7 \times 9 =$

$0.09 \times 7 =$

f) $9 \times 6 =$

$0.09 \times 6 =$

g) $203 \times 4 =$

$2.03 \times 4 =$

h) $11 \times 11 =$

$0.11 \times 11 =$

a)

	8	.	1
	×		3

b)

	5	.	6	2
			×	5

c)

	1	5	.	0	6
				×	7

d)

	1	0	2	.	1	0
					×	1

a)

	2	.	8	
×	3			

b)

	4	.	3	6
×	5			

c)

	2	0	.	3
×	7			

d)

		2	8	.	1
×	5	9			

e)

		0	.	0	6
×	5	4			

f)

		2	4	.	3	2
×	1	0	9			

a	0.4	1	$\frac{1}{3}$	4		$\frac{2}{9}$		10.1	0.9	$-\frac{1}{2}$
b	2.4	6	2		$\frac{6}{7}$		4.2			

$a =$

$b =$

LP 124/8

x	0.2	3	$\frac{2}{5}$	2	$\frac{3}{5}$	$\frac{1}{6}$			9.2	0.5		
y	1.0	15	2				$\frac{5}{7}$	3.5			$-\frac{1}{4}$	0.75

$x =$

$y =$

LP 125/4

<i>a</i>	0.4	30	2.1	$\frac{4}{5}$				2.9		0.8
<i>b</i>	1.6	120	8.4		12	4.4	$\frac{3}{5}$		0.8	

Rule:

LP 126/1

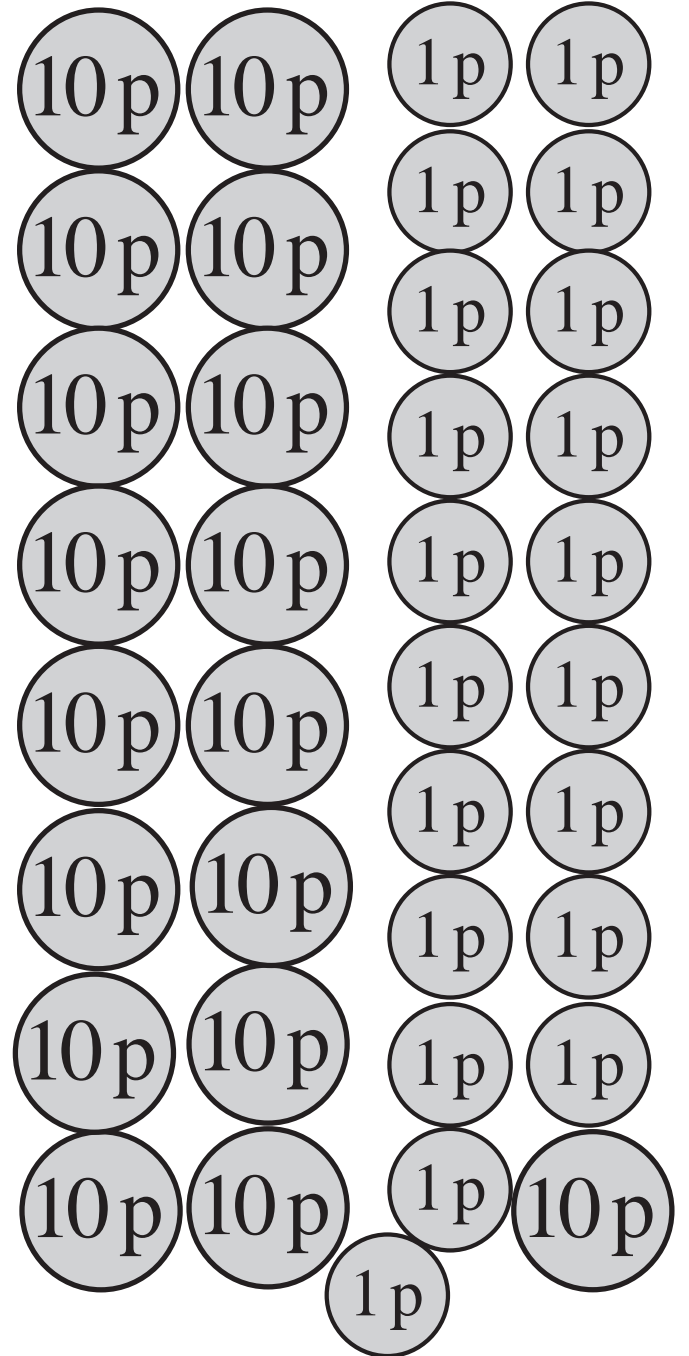
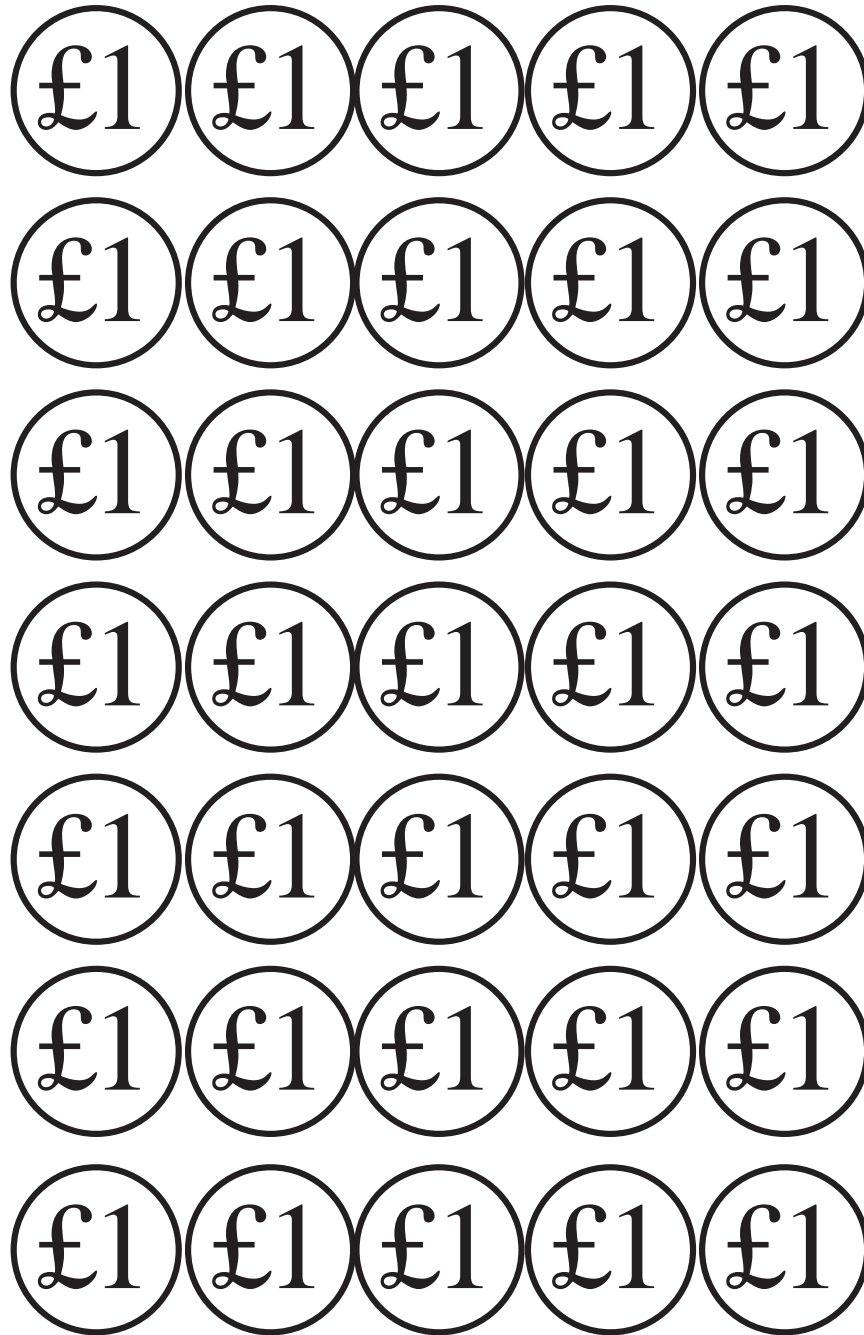
a) $\frac{1}{3} =$

b) $\frac{2}{3} =$

c) $\frac{5}{6} =$

LP 128/8

£10
£10
£10
£10
£10
£10
£10
£10
£10



Long division:

--

E:

Short division:

Check:

Long division

7	1	2	9	.	5

$$129.5 \div 7 =$$

E: _____

Short division:

Check:

Long division:

7	1	2	9	.	6

$$129.6 \div 7 =$$

E:

Short division:

Check:

a) $\frac{1}{2} =$

b) $\frac{7}{2} =$

c) $\frac{3}{5} =$

d) $\frac{11}{5} =$

e) $\frac{1}{4} =$

f) $\frac{3}{4} =$

g) $\frac{7}{4} =$

$$\frac{1}{2}$$

$$\frac{9}{4}$$

$$0.4$$

$$2.25$$

$$\frac{7}{14}$$

$$\frac{1}{3}$$

$$10.21$$

$$2\frac{1}{4}$$

$$0.\dot{3}$$

$$0.50$$

$$\frac{5}{6}$$

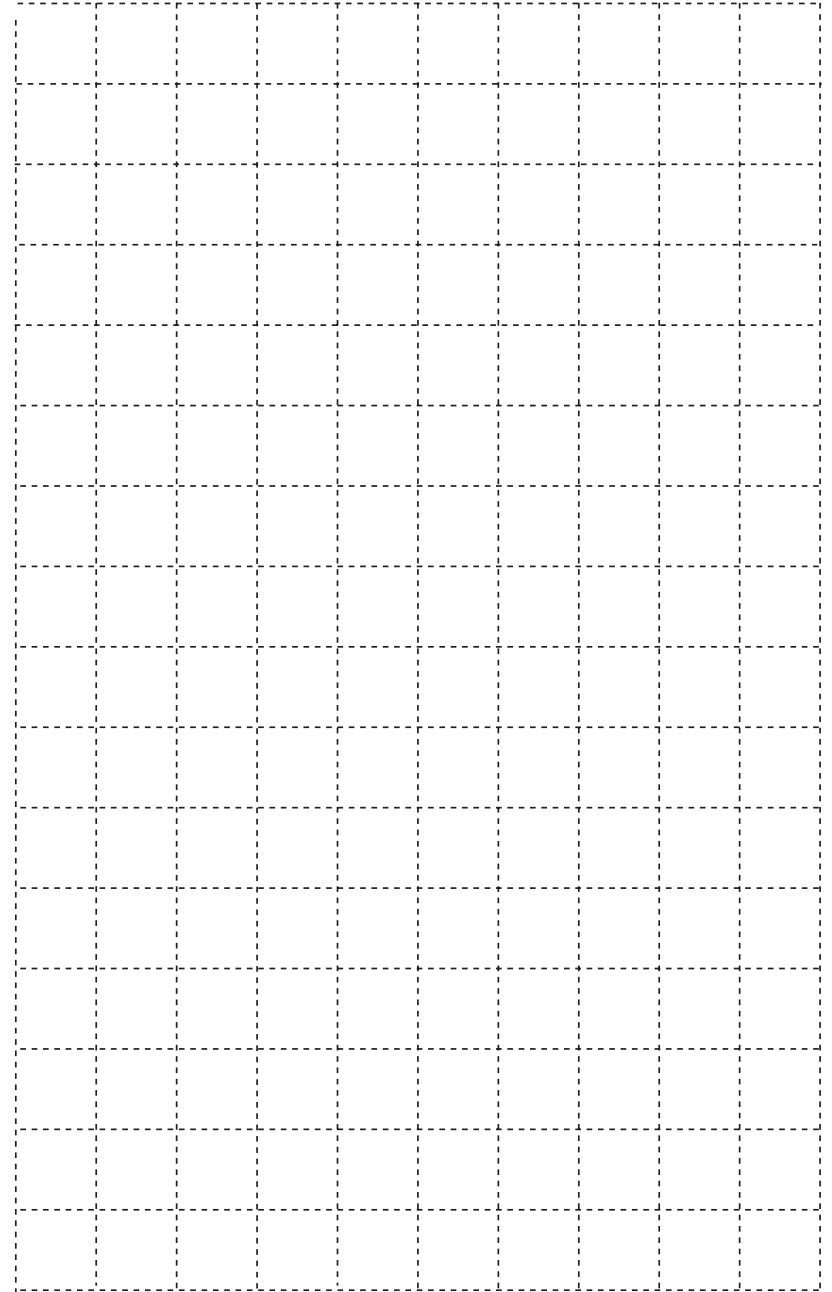
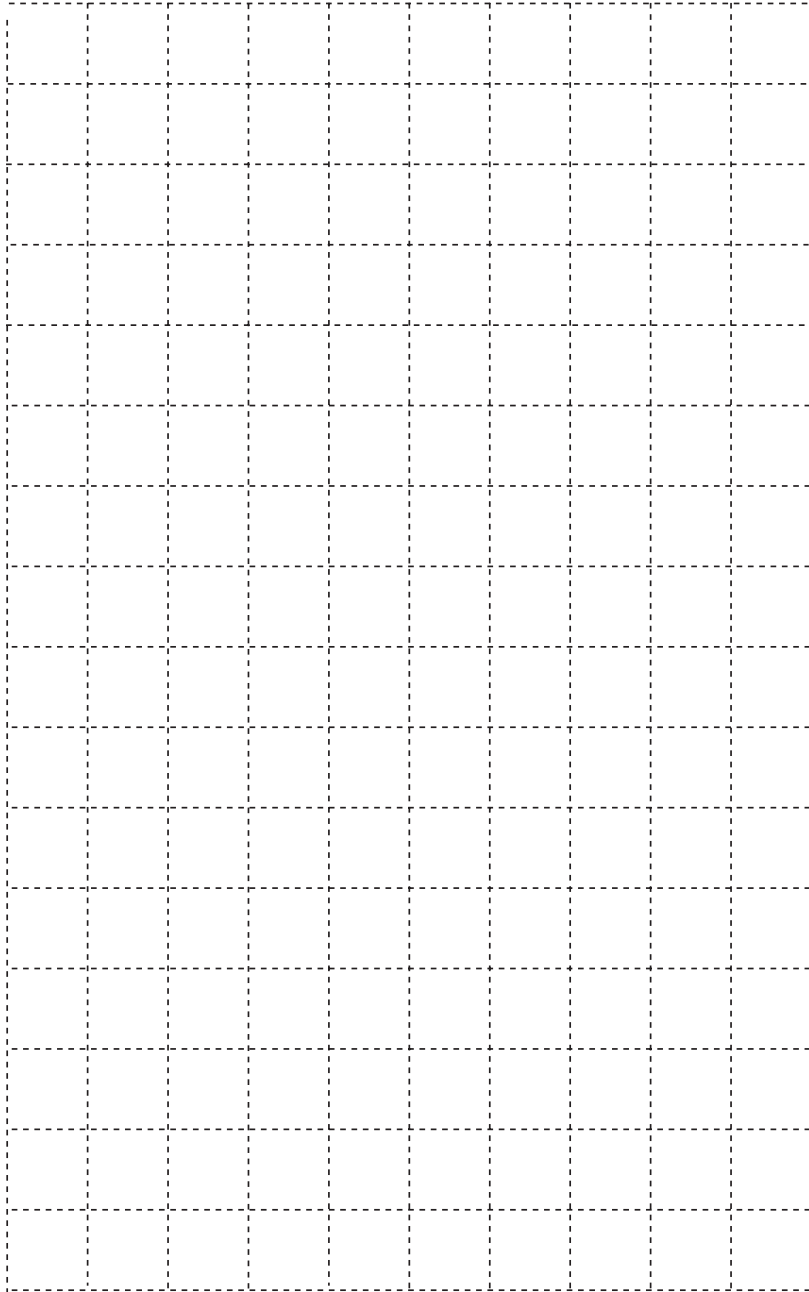
$$\frac{2}{5}$$

$$\frac{6}{15}$$

$$\frac{1021}{100}$$

$$10\frac{21}{100}$$





a) 3 minutes = $\frac{3}{\boxed{}}$ hour = $\frac{\boxed{}}{\boxed{}}$ hour = $\frac{\boxed{}}{100}$ hour = $\boxed{0.}$ hour

b) 15 minutes = $\frac{15}{\boxed{}}$ hour = $\frac{\boxed{}}{\boxed{}}$ hour = $\frac{\boxed{}}{100}$ hour = $\boxed{0.}$ hour

c) 63 minutes = $\frac{63}{\boxed{}}$ hour = $\frac{\boxed{}}{\boxed{}}$ hour = $\frac{\boxed{}}{100}$ hour = $\boxed{}$ hours

d) 6 hours = $\frac{\boxed{}}{24}$ day = $\frac{1}{\boxed{}}$ day = $\boxed{0.}$ day

e) 3 hours = $\frac{3}{\boxed{}}$ day = $\frac{1}{\boxed{}}$ day = $\boxed{0.}$ day

f) 15 hours = $\frac{\boxed{}}{24}$ day = $\frac{\boxed{}}{8}$ day = $\boxed{0.}$ day

$\frac{1}{8}$	$\frac{1}{2}$		$\frac{4}{5}$	$\frac{23}{1000}$
		$\frac{3}{8}$		
$\frac{23}{100}$	$\frac{1}{5}$		$\frac{3}{4}$	$\frac{5}{8}$

0.125	0.2	0.625
0.5	0.8	0.75
0.023	0.23	0.375

LP 130/2

$$\frac{2}{5}$$

$$\frac{4}{3}$$

$$\frac{16}{20}$$

$$\frac{4}{9}$$

$$\frac{4}{5}$$

$$\frac{6}{15}$$

$$\frac{20}{45}$$

$$\frac{24}{30}$$

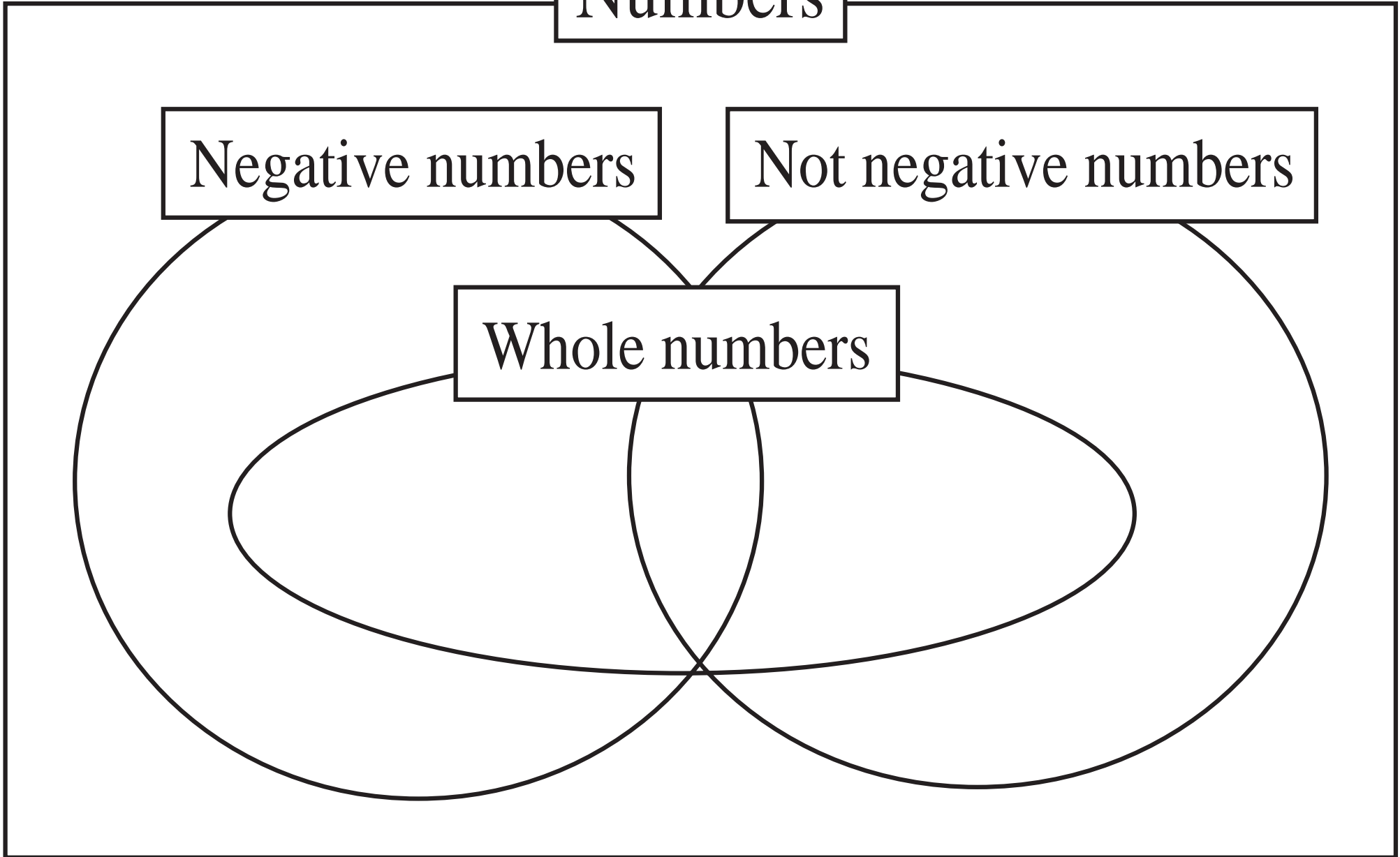
LP 130/5

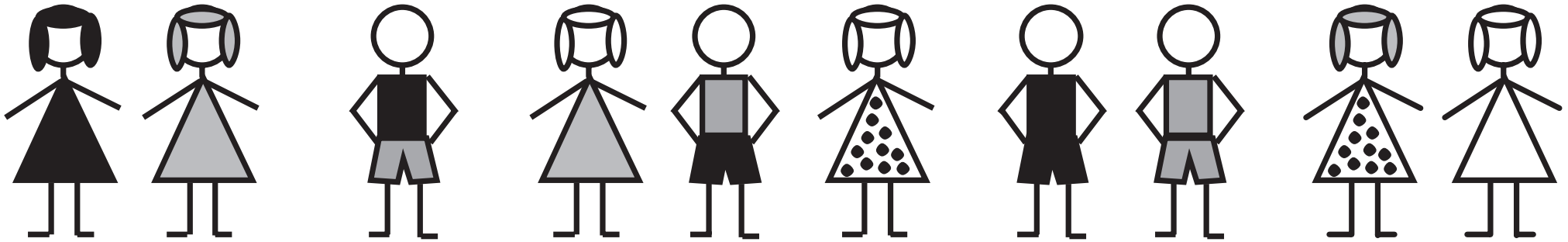
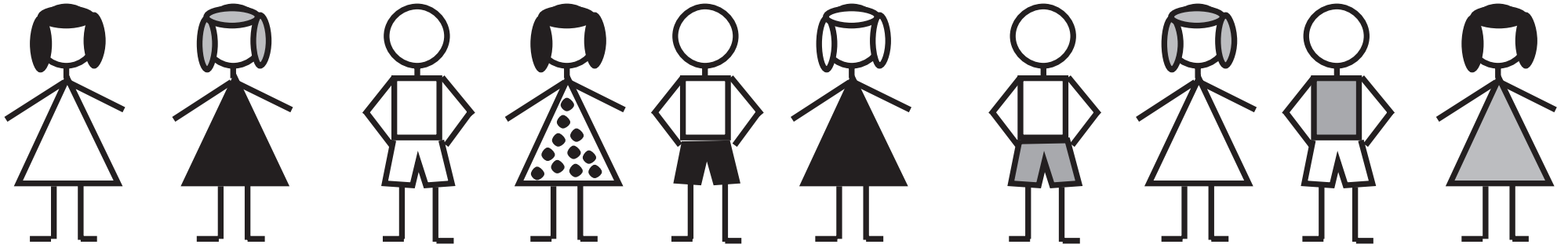
Numbers

Negative numbers

Not negative numbers

Whole numbers





















Outcome	Prediction	Tosses																				Totals
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Head																						
Tail																						

Outcome	Number of tosses	Totals (frequency)	Ratio (relative frequency)	
			fraction	percentage
Head				
Tail				

Prediction Outcome		Tally of 20 throws	Totals (frequency)	Ratio (relative frequency)	
				fraction	percentage
					
					
					
					
					
					

Outcome	Number of throws	Totals (frequency)	Ratio (relative frequency)	
			fraction	percentage
				
				
				
				
				
				

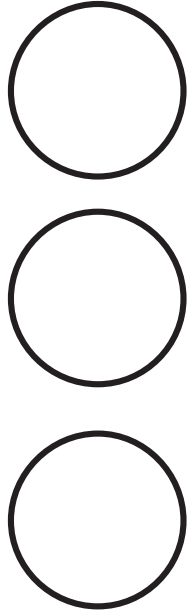
Outcome	Alan	Becky	Carol	David	Totals <i>frequency</i>	Ratio		
						<i>relative frequency</i>		
						fraction	decimal	percentage
Head	24	30	27	20				
Tail	25	28	31	15				
Total tosses								

LP 134/3

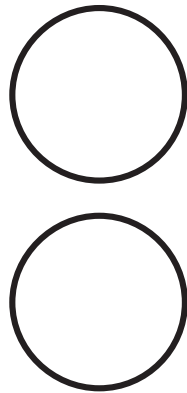
Outcome (10p) (£1)	Tally of 24 throws	Totals <i>frequency</i>		Ratio <i>relative frequency</i>		
		Pupil	Class	fraction	decimal	%
H H						
H T						
T H						
T T						
Prediction						
Total throws						

LP 134/5

Outcome



Outcome



Outcome (10p) (50p) (£1)			Tally of 24 throws	Totals <i>frequency</i>		Ratio <i>relative frequency</i>		
				Pupil	Class	fraction	decimal	%
H	H	H						
H	H	T						
H	T	H						
H	T	T						
T	H	H						
T	H	T						
T	T	H						
T	T	T						
Prediction				Total throws				

<i>white</i>						
<i>red</i>						

<i>white</i>						
<i>red</i>						

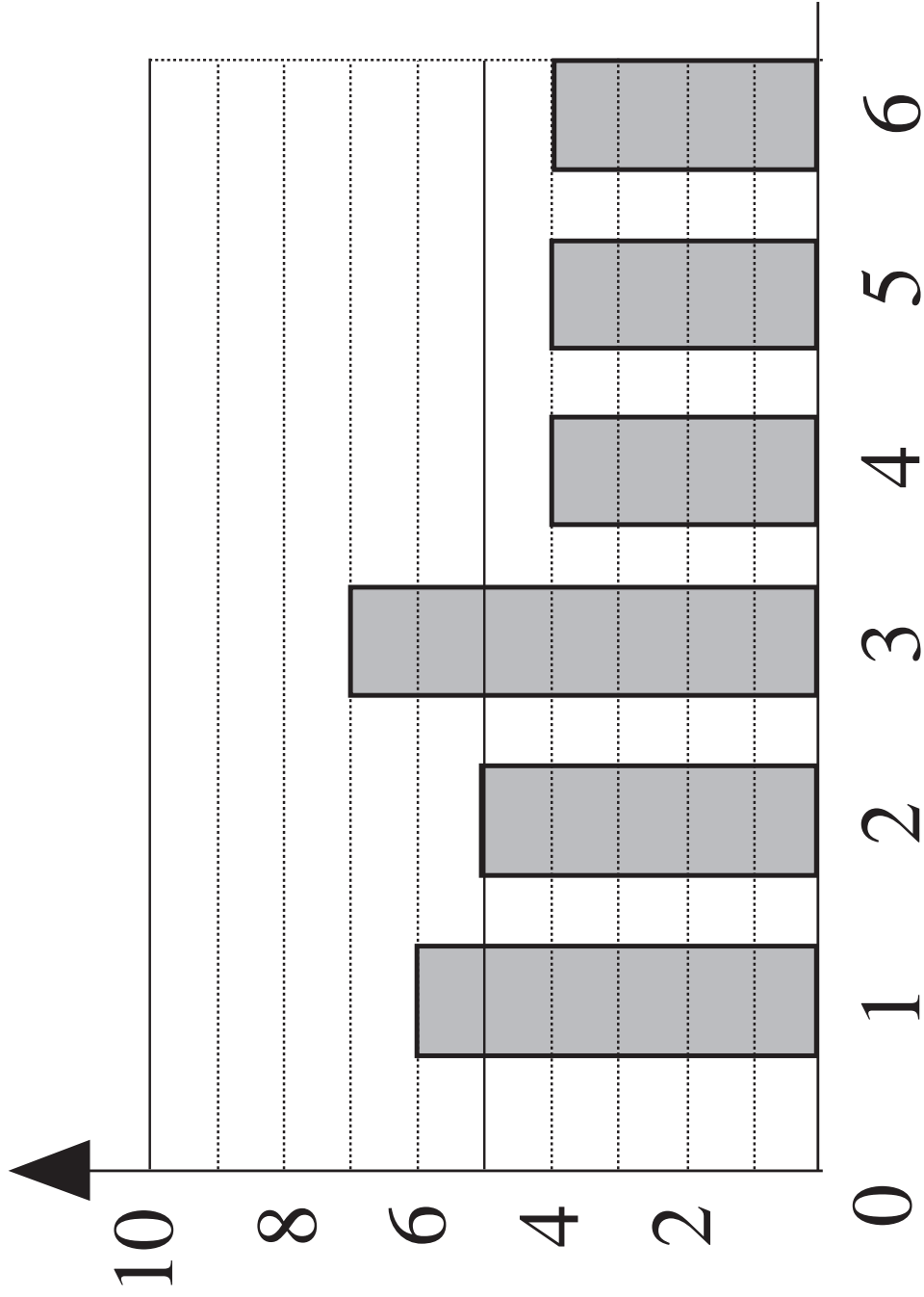
<i>white</i>						
<i>red</i>						

<i>white</i>						
<i>red</i>						

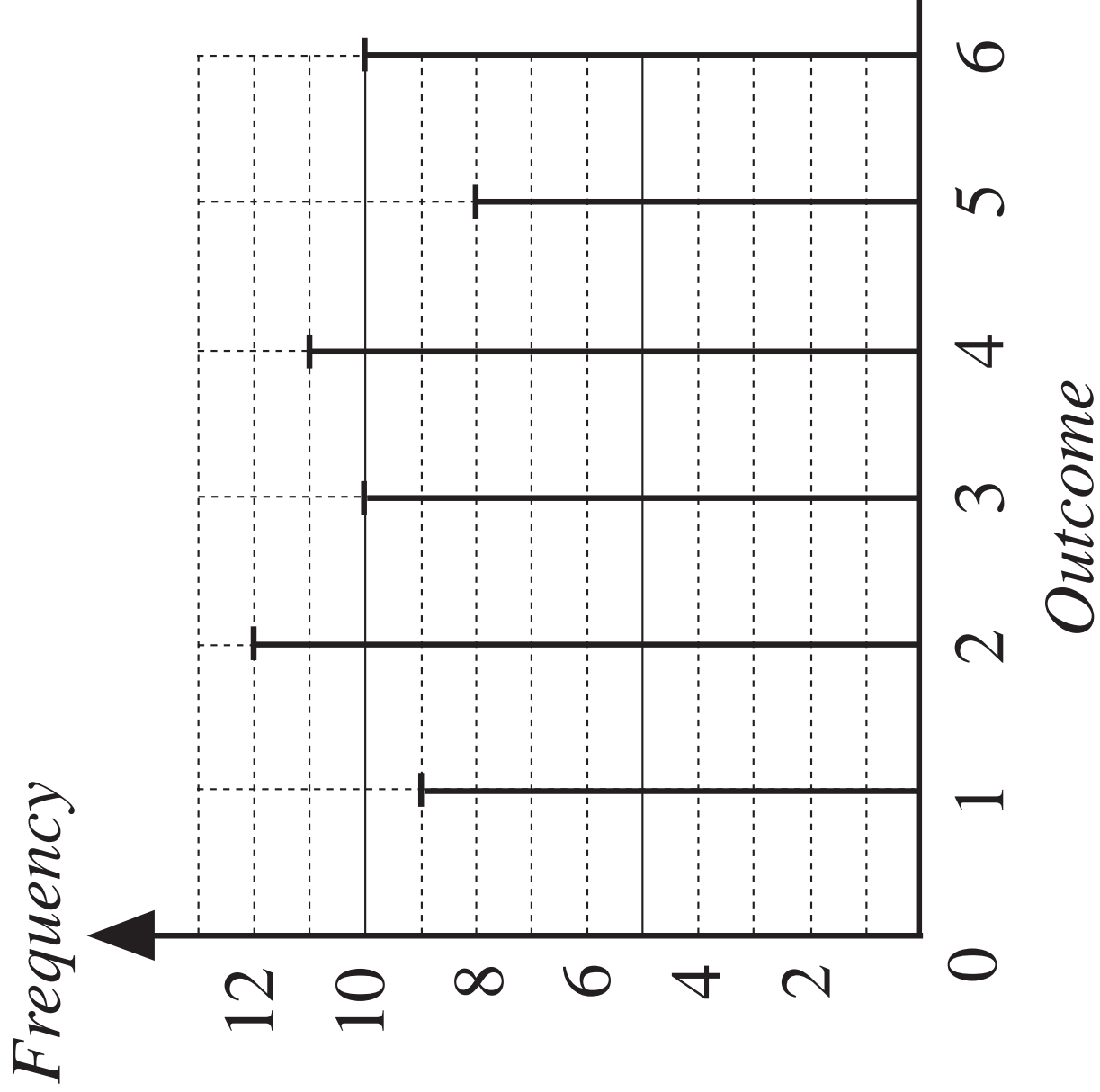
<i>white</i>						
<i>red</i>						

<i>white</i>						
<i>red</i>						

Outcome w	r 	Tally of 72 throws	Totals <i>frequency</i>		Ratio <i>relative frequency</i>	
			Pupil	Class	fraction	decimal
1	1					
1	2					
1	3					
1	4					
1	5					
1	6					
2	1					
2	2					
2	3					
2	4					
2	5					
2	6					
3	1					
3	2					
3	3					
3	4					
3	5					
3	6					
4	1					
4	2					
4	3					
4	4					
4	5					
4	6					
5	1					
5	2					
5	3					
5	4					
5	5					
5	6					
6	1					
6	2					
6	3					
6	4					
6	5					
6	6					
		Prediction	Total throws			

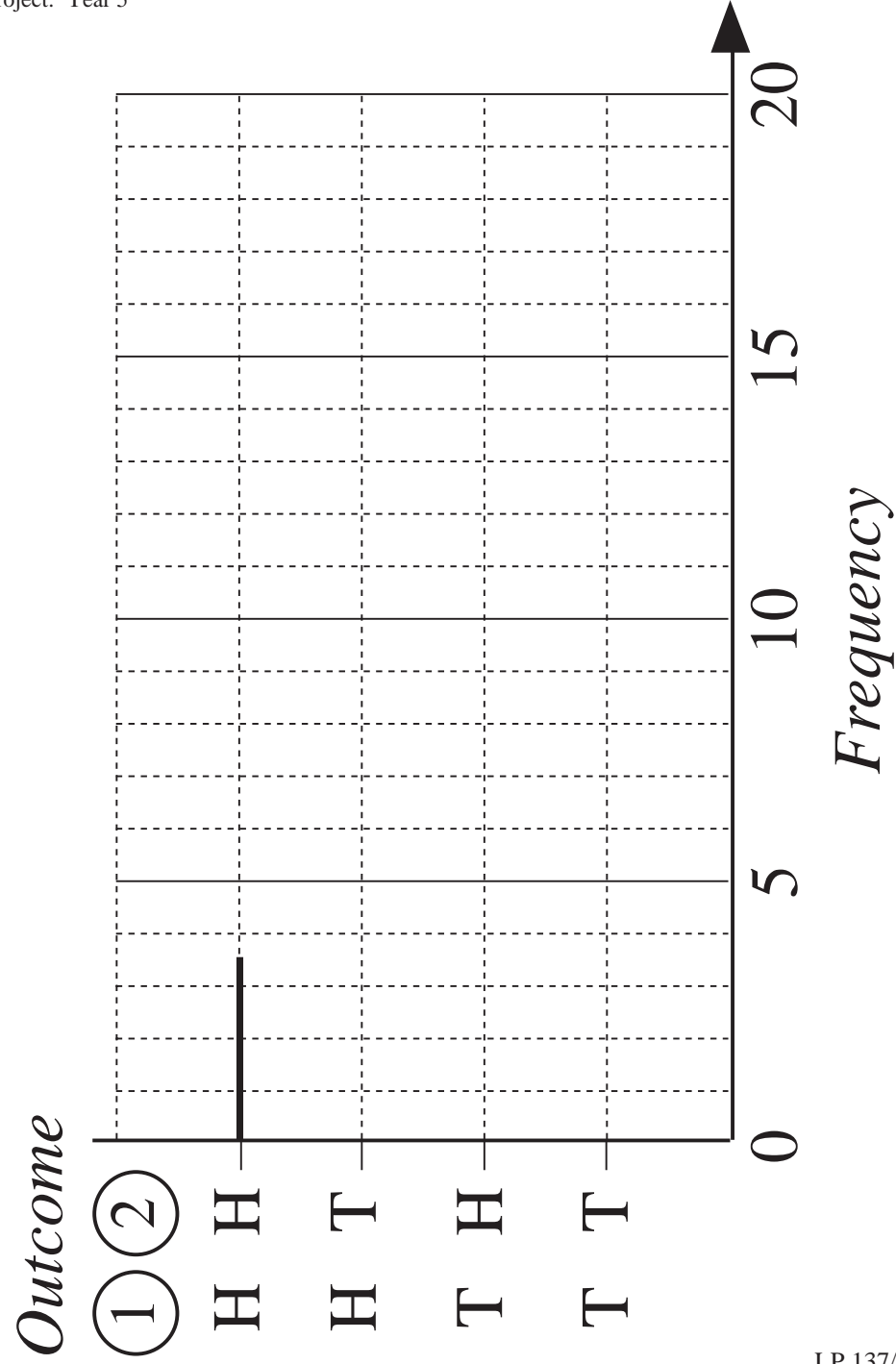


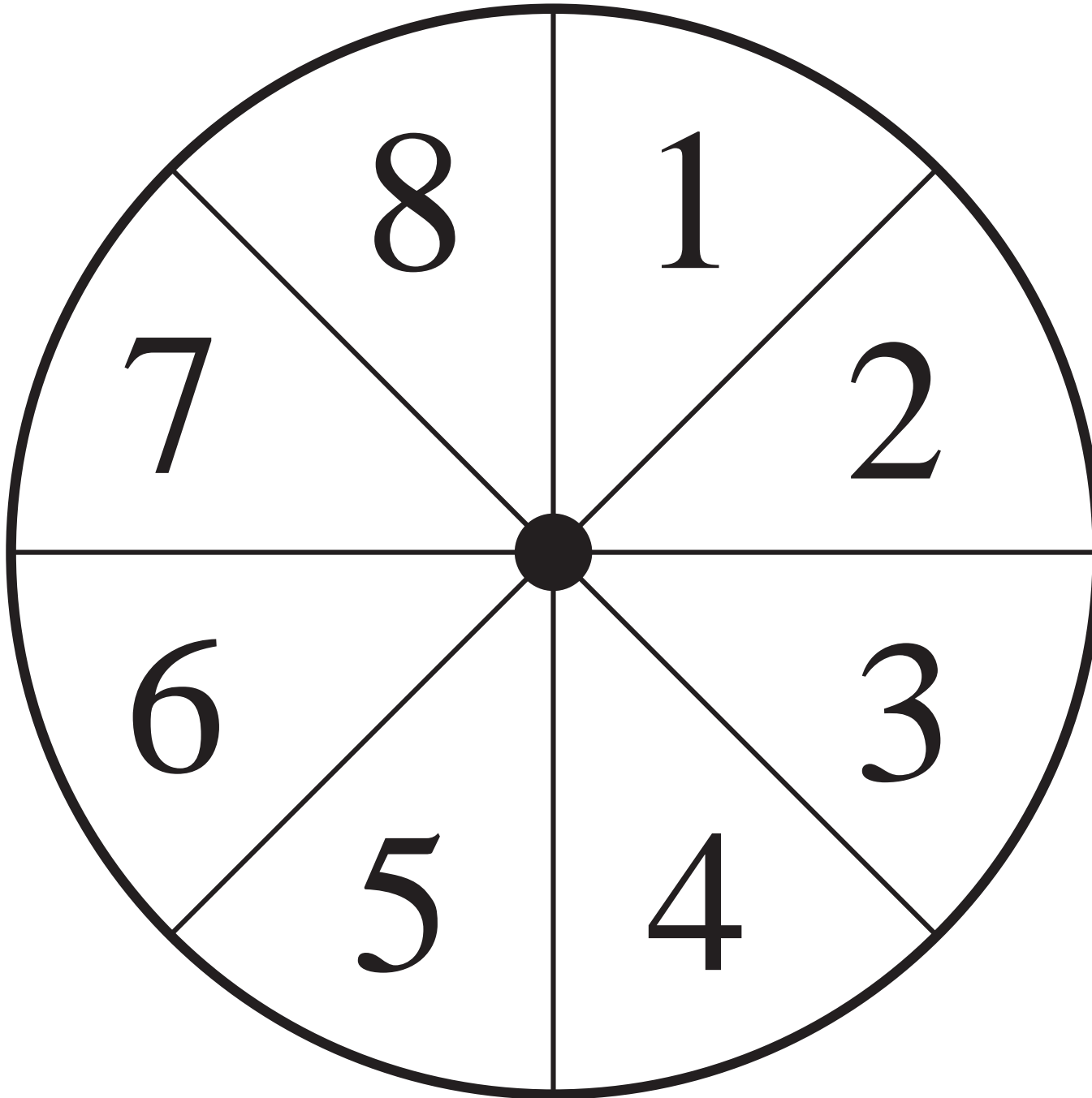
Outcome	1	2	3	4	5	6
Frequency						
Ratio <i>relative frequency</i>	$\frac{a}{b}$					
	%					



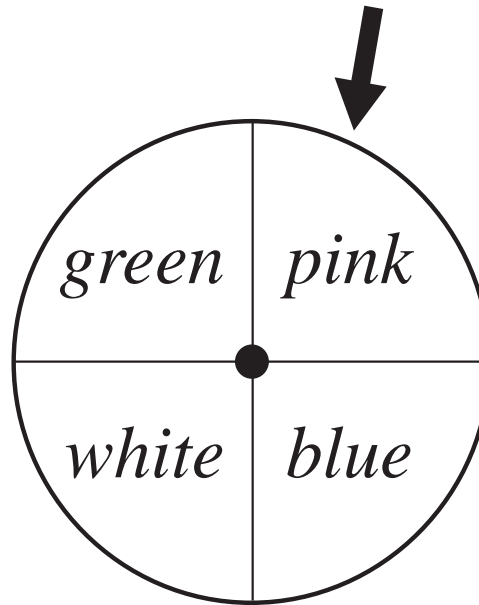
Outcome	1	2	3	4	5	6
Frequency						
Ratio <i>relative frequency</i>	$\frac{a}{b}$					
	%					

Outcome	Frequency	Ratio <i>relative frequency</i>
① ② H H	14	
H T	15	
T H	16	
T T	15	



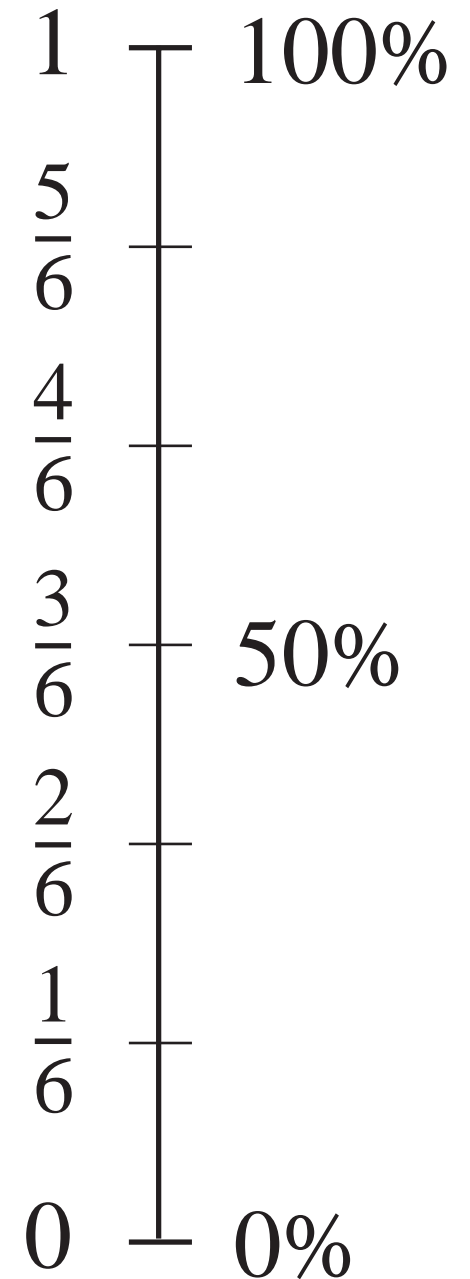


Outcome		1	2	3	4	5	6	7	8
Frequency									
Ratio <i>relative frequency</i>	fraction								
	decimal								
	%								

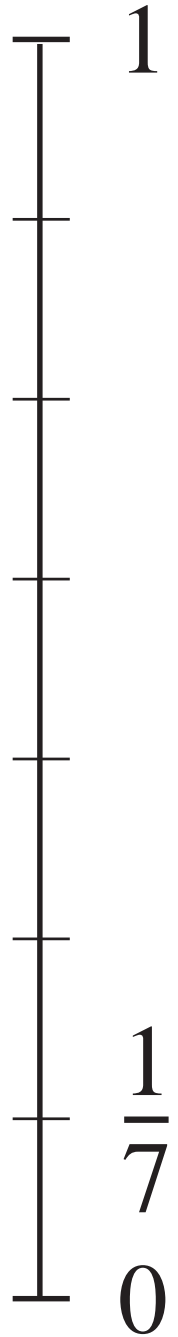


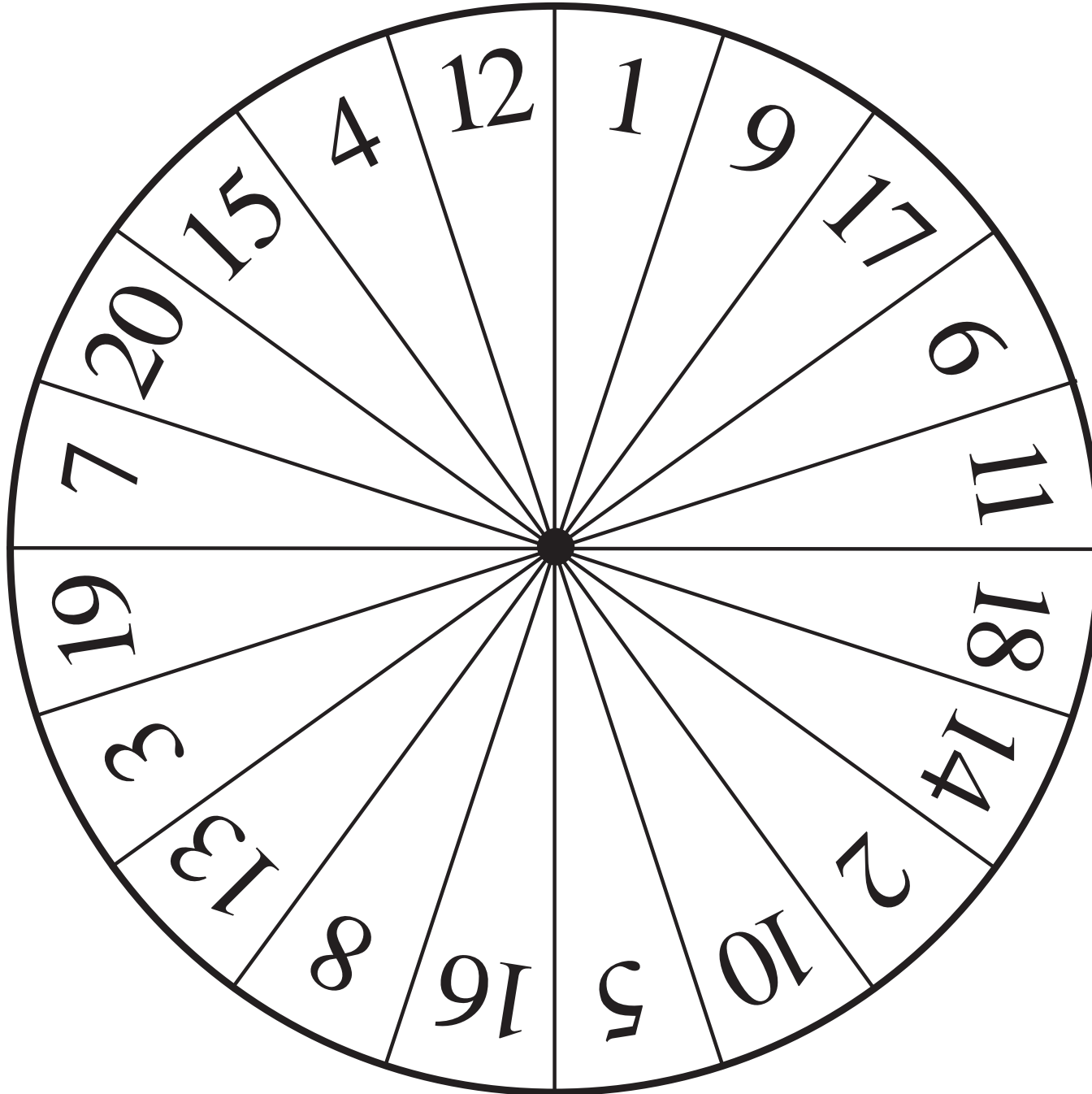
Outcome		<i>pink</i>	<i>blue</i>	<i>white</i>	<i>green</i>	<i>pink or blue</i>	<i>p or w or g</i>
Frequency		26	23	25	26		
Ratio <i>relative frequency</i>	fraction						
	decimal						
	%						

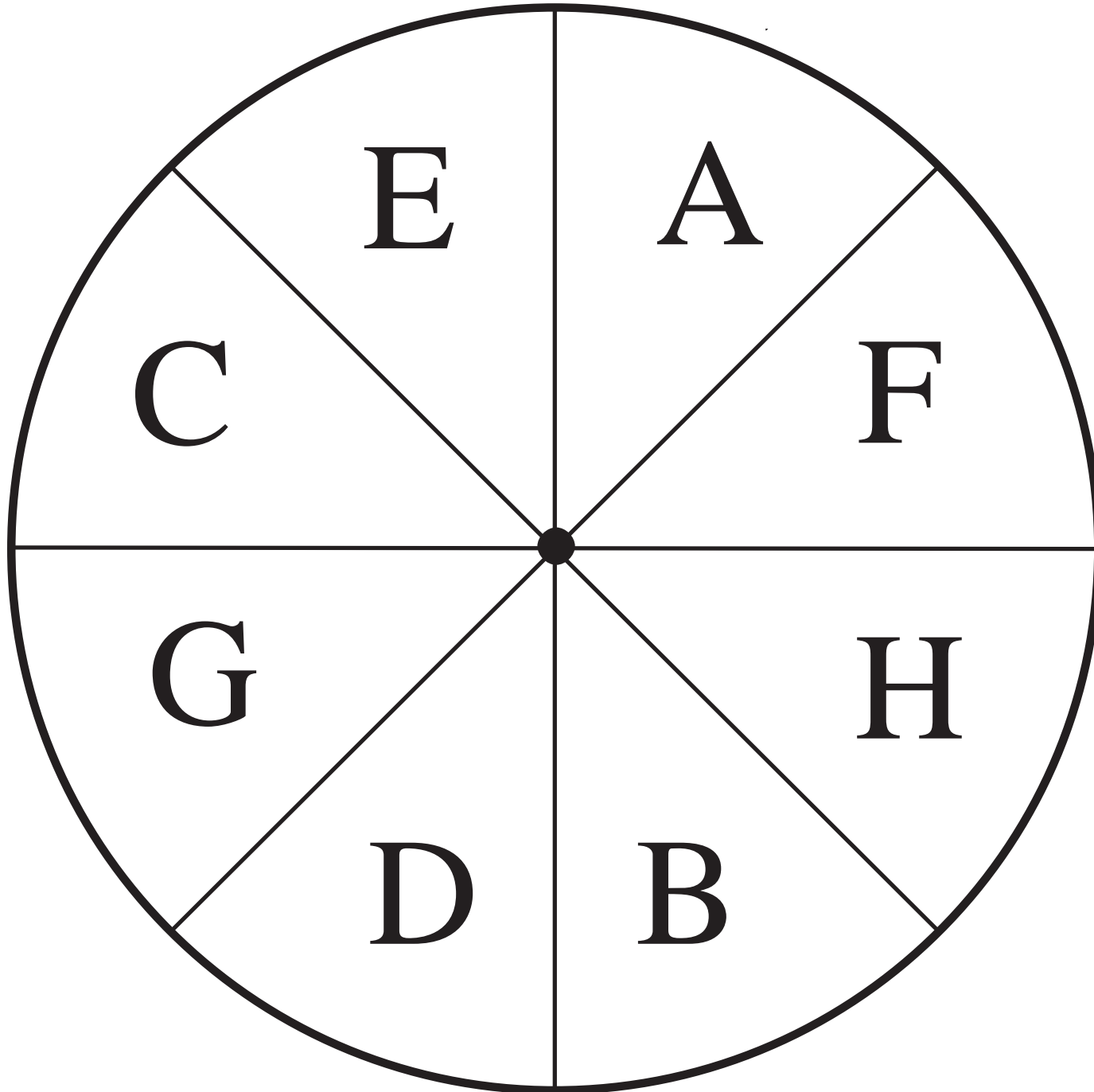
- a) Throwing a 2
- b) Throwing a number less than 3
- c) Throwing a number not less than 3
- d) Throwing a 7
- e) Throwing a number less than 1
- f) Throwing a number greater than 0
- g) Throwing a number greater than 5



- a) C wins.
- b) A or D wins.
- c) G or E or C or A wins.
- d) B and F win.
- e) G does not win.
- f) Neither D nor E wins.







- a) Throwing a 6
- b) Throwing a number less than 6
- c) Throwing a number not less than 6
- d) Throwing a number greater than 2
- e) Throwing a number less than 1
- f) Throwing an odd number
- g) Throwing a natural number

