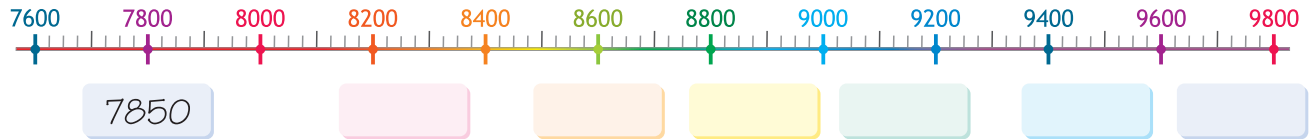
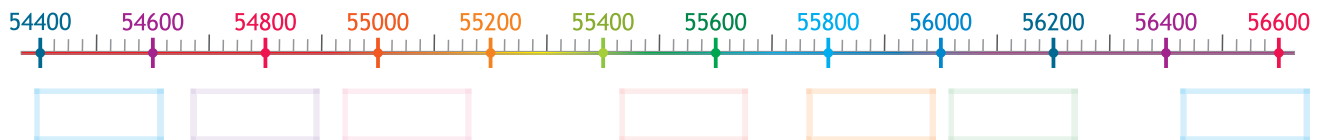


① Draw pointers to the positions of the numbers on the number lines. Use estimation where required.

a. 7850, 8325, 8675, 8945, 9090, 9484, 9675



b. 54450, 54825, 55055, 55550, 55837, 56113, 56475



② Show 2,638 on the open number line by jumping forward from 0.



③ Show (a.) 349 and (b.) 1898 by using the least jumps of 1000, 100, 10 and 1.



④ Do these on the lines below.

- a. How many jumps of 100 is 5387 away from 4987? b. By how much is 7200 greater than 6808?
c. From 83942, how many jumps of 10000 is 133942? d. By how much is 59614 less than 62840?

a. _____ b. _____

c. _____ d. _____



1 Complete the table.

Sum	Nearest 10s	Nearest 100s	Nearest 1000s
$1214 + 6108$ $= 7322$	$\underline{1210} + \underline{6110}$ $= 7320$	$\underline{\quad\quad} + \underline{\quad\quad}$ $= \underline{\quad\quad}$	$\underline{\quad\quad} + \underline{\quad\quad}$ $= \underline{\quad\quad}$
$31206 + 4783$ $= \underline{\quad\quad}$	$\underline{\quad\quad} + \underline{\quad\quad}$ $= \underline{\quad\quad}$	$\underline{\quad\quad} + \underline{\quad\quad}$ $= \underline{\quad\quad}$	$\underline{\quad\quad} + \underline{\quad\quad}$ $= \underline{\quad\quad}$
$15943 + 63128$ $= \underline{\quad\quad}$	$\underline{\quad\quad} + \underline{\quad\quad}$ $= \underline{\quad\quad}$	$\underline{\quad\quad} + \underline{\quad\quad}$ $= \underline{\quad\quad}$	$\underline{\quad\quad} + \underline{\quad\quad}$ $= \underline{\quad\quad}$

2 Write < or >.

a. $2187 + 4669$ $2187 + 5003$

b. $2375 + 7219$ $2378 + 7219$

c. $10764 + 6513$ $10746 + 6513$

d. $4917 + 76941$ $3872 + 76834$

e. $73001 + 52843$ $73001 + 54832$

f. $30727 + 69264$ $30728 + 69264$

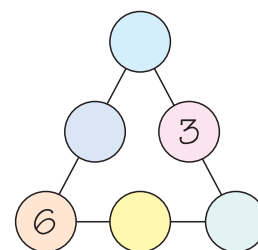
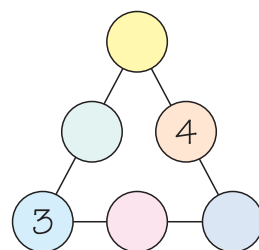
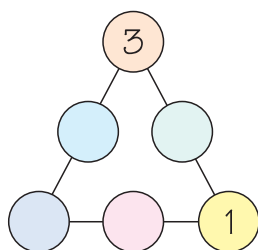
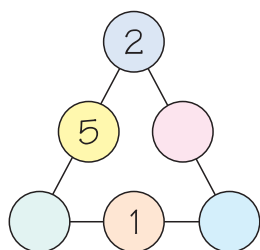
3 Fill in the empty circles using the numbers 1 to 6 once each. Some are filled. The sum on each side is:

a. 11

b. 9

c. 10

d. 12



1 Fill in the missing digits.

$$\begin{array}{r} 39\text{ } \square 6 \\ - \square 54\square \\ \hline 2\square 41 \end{array}$$

$$\begin{array}{r} \square 989\square \\ - 4\square 9\square 6 \\ \hline 53\square 23 \end{array}$$

$$\begin{array}{r} 61\square\square 5 \\ - 3\square 74\square \\ \hline \square 2459 \end{array}$$

$$\begin{array}{r} 9\square\square 13 \\ - \square 95\square 8 \\ \hline 4720\square \end{array}$$

$$\begin{array}{r} \square 724\square 6 \\ - 19\square\square 75 \\ \hline 3\square 373\square \end{array}$$

$$\begin{array}{r} 7\square\square 82\square \\ - \square 31\square 76 \\ \hline 2328\square 7 \end{array}$$

$$\begin{array}{r} \square 0\square 0\square 2 \\ - 3\square 246\square \\ \hline 427\square 84 \end{array}$$

2 Find these in two different ways on the number grid.

$$a. \quad 2565 - 22$$

2531	2532	2533	2534	2535	2536	2537	2538	2539	2540
2541	2542	2543	2544	2545	2546	2547	2548	2549	2550
2551	2552	2553	2554	2555	2556	2557	2558	2559	2560
2561	2562	2563	2564	2565	2566	2567	2568	2569	2570

2531	2532	2533	2534	2535	2536	2537	2538	2539	2540
2541	2542	2543	2544	2545	2546	2547	2548	2549	2550
2551	2552	2553	2554	2555	2556	2557	2558	2559	2560
2561	2562	2563	2564	2565	2566	2567	2568	2569	2570

$$b. \quad 4038 - 16$$

4041	4042	4043	4044	4045	4046	4047	4048	4049	4050
4031	4032	4033	4034	4035	4036	4037	4038	4039	4040
4021	4022	4023	4024	4025	4026	4027	4028	4029	4030
4011	4012	4013	4014	4015	4016	4017	4018	4019	4020

4041	4042	4043	4044	4045	4046	4047	4048	4049	4050
4031	4032	4033	4034	4035	4036	4037	4038	4039	4040
4021	4022	4023	4024	4025	4026	4027	4028	4029	4030
4011	4012	4013	4014	4015	4016	4017	4018	4019	4020

$$c. \quad 6414 - 29$$

6421	6422	6423	6424	6425	6426	6427	6428	6429	6430
6411	6412	6413	6414	6415	6416	6417	6418	6419	6420
6401	6402	6403	6404	6405	6406	6407	6408	6409	6410
6391	6392	6393	6394	6395	6396	6397	6398	6399	6400
6381	6382	6383	6384	6385	6386	6387	6388	6389	6390

6421	6422	6423	6424	6425	6426	6427	6428	6429	6430
6411	6412	6413	6414	6415	6416	6417	6418	6419	6420
6401	6402	6403	6404	6405	6406	6407	6408	6409	6410
6391	6392	6393	6394	6395	6396	6397	6398	6399	6400
6381	6382	6383	6384	6385	6386	6387	6388	6389	6390



1 Multiply by breaking the factors into 100s, 10s and 1s and adding the products.

a. 7×16

×	10	6		
7				

b. 8×19

×				

c. 6×314

×				

d. 45×68

×				

e. 529×36

×				

f. 77×24

×				

g. 83×616

×				

2 Multiply.

a.

	26
×	17

b.

	32
×	21

c.

	54
×	15

d.

	43
×	43

e.

	29
×	62

1 Look at the addition patterns and fill in.

a. $1 + 2 + 3 + 4 + 5 = 15$ 5×3 (middle number)
 $2 + 3 + 4 + 5 + 6 = 20$ 5×4
 $3 + 4 + 5 + \square + \square = \square$
 $4 + \square + \square + \square + \square = \square$
 $11 + \square + \square + \square + \square = \square$

b. $0 + 1 = 1$ last number = 1, $1 \times 2 \div 2 = 1$
 $0 + 1 + 2 = 3$ last number = 2, $2 \times 3 \div 2 = 3$
 $0 + 1 + 2 + 3 = \square$
 $0 + 1 + 2 + 3 + 4 = \square$
 $0 + 1 + 2 + 3 + 4 + 5 + 6 = \square$
 $0 + 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 = \square$
 $0 + 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 + 11 = \square$

2 Find the pattern and fill in the blanks.

a. $3 \times 4 = 12$
 $30 \times 4 = 120$
 $300 \times 4 = \underline{\hspace{2cm}}$
 $3000 \times 4 = \underline{\hspace{2cm}}$
 $30000 \times 4 = \underline{\hspace{2cm}}$

b. $3 \times 4 = 12$
 $3 \times 40 = \underline{\hspace{2cm}}$
 $3 \times 400 = 1200$
 $3 \times 4000 = \underline{\hspace{2cm}}$
 $3 \times 40000 = \underline{\hspace{2cm}}$

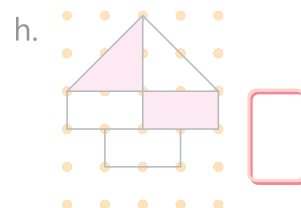
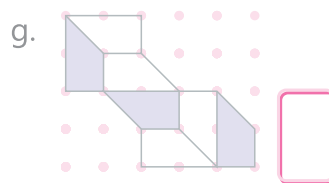
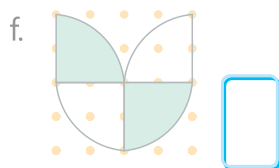
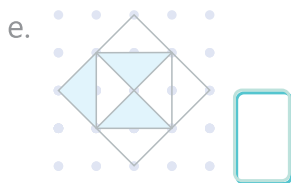
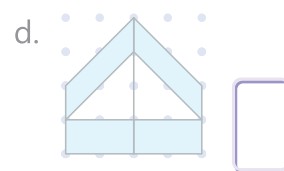
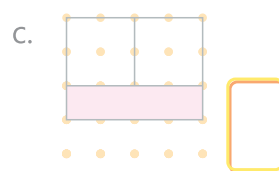
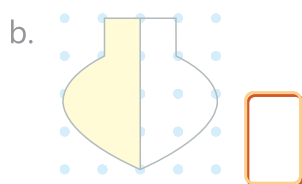
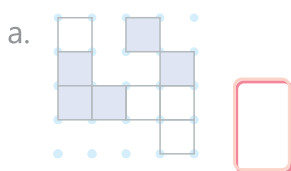
c. $12 \times 5 = 60$
 $24 \times 5 = 120$
 $36 \times 5 = 180$
 $72 \times 5 = \underline{\hspace{2cm}}$
 $96 \times 5 = \underline{\hspace{2cm}}$

d. $15 \times 4 = 60$
 $45 \times 4 = 180$
 $75 \times 4 = \underline{\hspace{2cm}}$
 $105 \times 4 = \underline{\hspace{2cm}}$
 $135 \times 4 = \underline{\hspace{2cm}}$

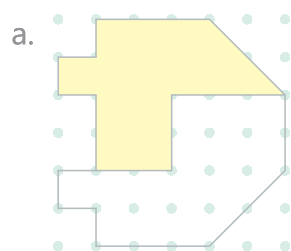
e. $62 \times 5 = 310$
 $62 \times 10 = \underline{\hspace{2cm}}$
 $62 \times 15 = 930$
 $62 \times 25 = \underline{\hspace{2cm}}$
 $62 \times 45 = \underline{\hspace{2cm}}$

f. $27 \times 2 = 54$
 $27 \times 40 = 1080$
 $27 \times 200 = \underline{\hspace{2cm}}$
 $27 \times 400 = \underline{\hspace{2cm}}$
 $27 \times 2000 = \underline{\hspace{2cm}}$

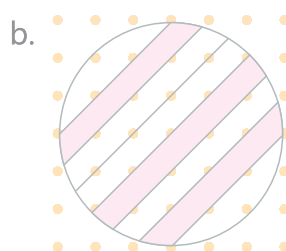
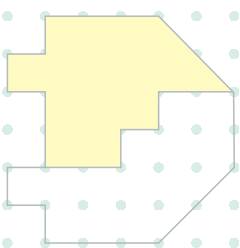
① What fraction is shaded?



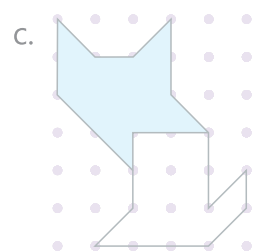
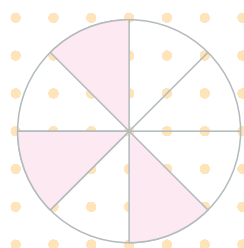
② Tick the figure that correctly shows the fraction. Hint: Count the triangles.



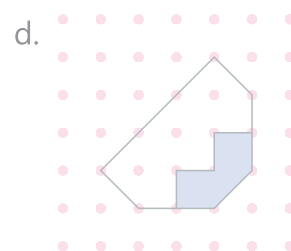
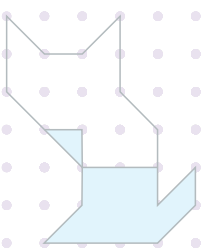
$$\frac{13}{28}$$



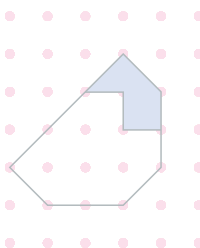
$$\frac{3}{8}$$



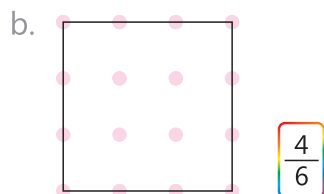
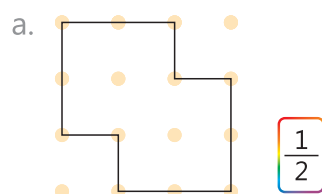
$$\frac{6}{15}$$



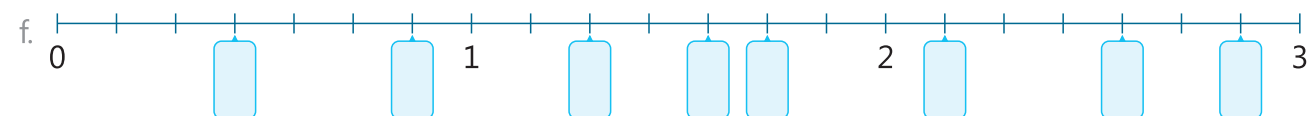
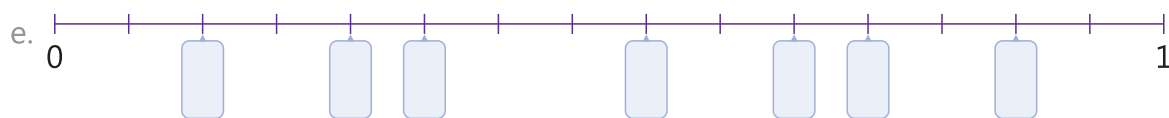
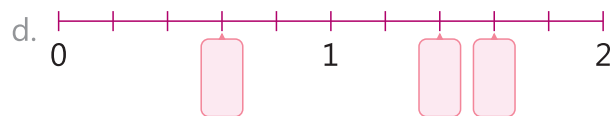
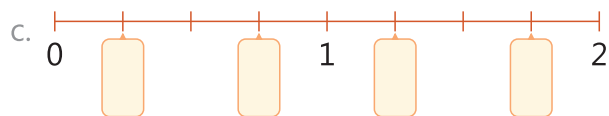
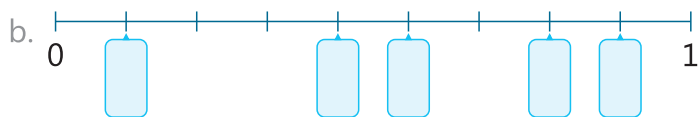
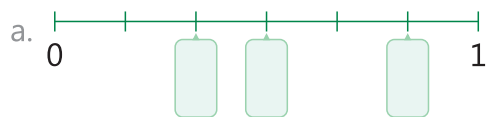
$$\frac{1}{4}$$



③ Divide these into equal parts by counting the triangles. Then shade the fraction.

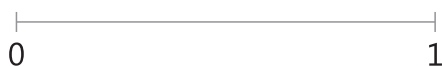


1 Fill in the fractions.

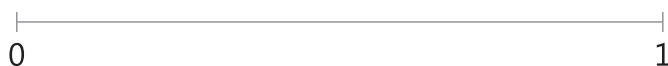


2 Divide the gap between numbers into roughly equal parts. Then mark the fractions.

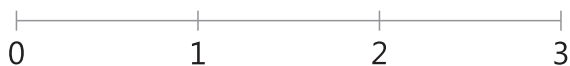
a. $\frac{1}{5}, \frac{3}{5}, \frac{4}{5}$



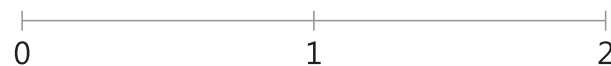
b. $\frac{2}{8}, \frac{3}{8}, \frac{5}{8}, \frac{7}{8}$



c. $\frac{5}{3}, \frac{6}{3}, \frac{8}{3}$



d. $\frac{6}{5}, \frac{7}{5}, \frac{9}{5}$



e. $\frac{3}{13}, \frac{5}{13}, \frac{6}{13}, \frac{8}{13}, \frac{11}{13}, \frac{12}{13}$



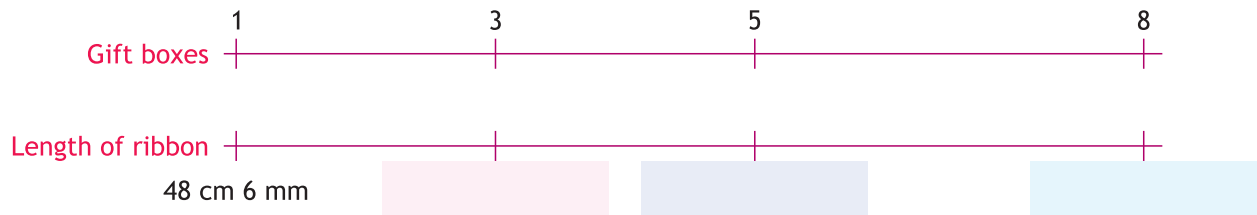
f. $\frac{4}{6}, \frac{7}{6}, \frac{9}{6}, \frac{10}{6}, \frac{13}{6}, \frac{14}{6}, \frac{17}{6}$



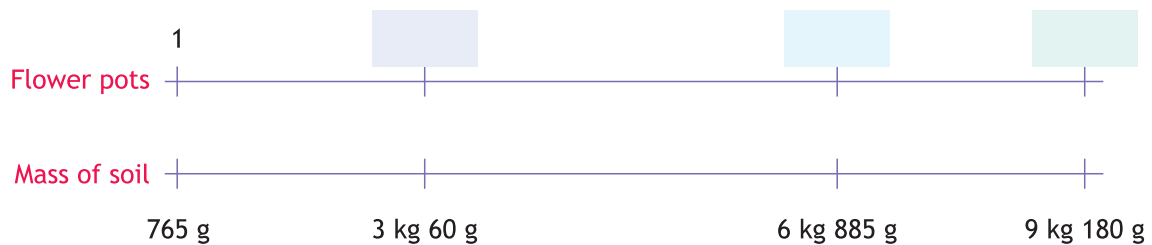


Fill the boxes on the double number lines to do these sums.

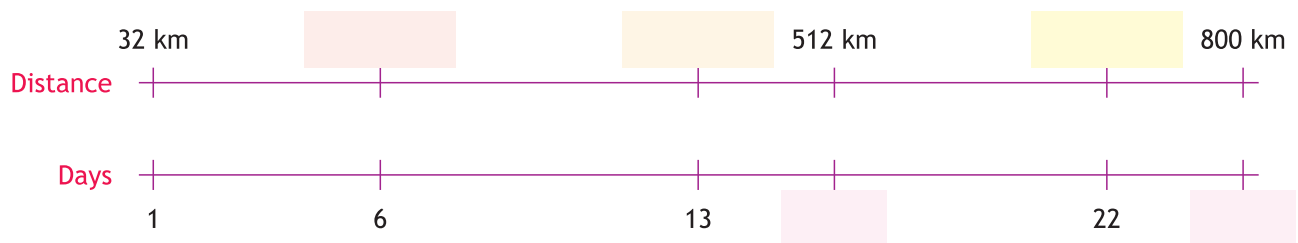
- ① A gift box needs 48 cm 6 mm of ribbon. What lengths of ribbon are needed for 3, 5 and 8 gift boxes of the same kind?



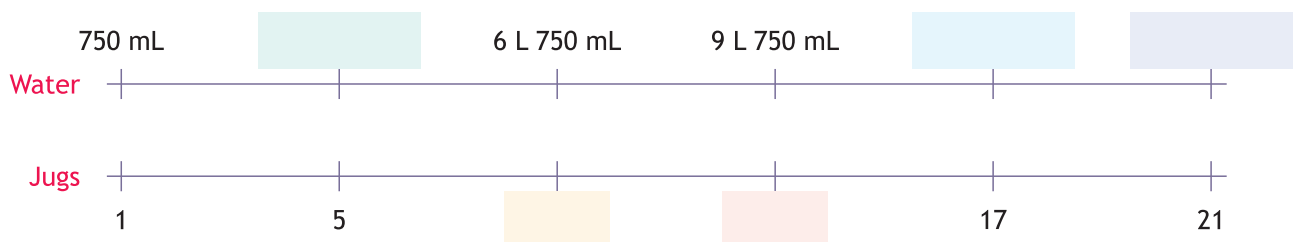
- ② How many similar flower pots can you fill with 3 kg 60 g, 6 kg 885 g and 9 kg 180 g of soil if you put 765 g of soil in each flower pot?



- ③ A school van covers a distance of 32 km in a day. Fill in the boxes below.



- ④ A jug holds 750 mL of water. Fill in the boxes below.





Do these sums.

1

a. $\begin{array}{r} \text{min} \\ 51 \\ + 8 \\ \hline \end{array}$

b. $\begin{array}{r} \text{min} \\ 46 \\ + 11 \\ \hline \end{array}$

c. $\begin{array}{r} \text{min} \\ 15 \\ + 24 \\ \hline \end{array}$

d. $\begin{array}{r} \text{min} \\ 39 \\ + 7 \\ \hline \end{array}$

e. $\begin{array}{r} \text{min} \\ 12 \\ + 19 \\ \hline \end{array}$

f. $\begin{array}{r} \text{min} \\ 48 \\ - 16 \\ \hline \end{array}$

g. $\begin{array}{r} \text{min} \\ 51 \\ - 8 \\ \hline \end{array}$

h. $\begin{array}{r} \text{min} \\ 24 \\ - 9 \\ \hline \end{array}$

i. $\begin{array}{r} \text{min} \\ 32 \\ - 27 \\ \hline \end{array}$

j. $\begin{array}{r} \text{min} \\ 30 \\ - 19 \\ \hline \end{array}$

2

a. $\begin{array}{r} \text{h} \\ 42 \\ + 7 \\ \hline \end{array}$

b. $\begin{array}{r} \text{h} \\ 14 \\ + 22 \\ \hline \end{array}$

c. $\begin{array}{r} \text{h} \\ 41 \\ + 13 \\ \hline \end{array}$

d. $\begin{array}{r} \text{h} \\ 36 \\ + 9 \\ \hline \end{array}$

e. $\begin{array}{r} \text{h} \\ 25 \\ + 18 \\ \hline \end{array}$

f. $\begin{array}{r} \text{h} \\ 35 \\ - 23 \\ \hline \end{array}$

g. $\begin{array}{r} \text{h} \\ 61 \\ - 39 \\ \hline \end{array}$

h. $\begin{array}{r} \text{h} \\ 50 \\ - 8 \\ \hline \end{array}$

i. $\begin{array}{r} \text{h} \\ 73 \\ - 48 \\ \hline \end{array}$

j. $\begin{array}{r} \text{h} \\ 42 \\ - 37 \\ \hline \end{array}$

3

a. $\begin{array}{r} \text{h} \quad \text{min} \\ 65 \quad 31 \\ + 24 \quad 11 \\ \hline \end{array}$

b. $\begin{array}{r} \text{h} \quad \text{min} \\ 57 \quad 36 \\ + 33 \quad 23 \\ \hline \end{array}$

c. $\begin{array}{r} \text{h} \quad \text{min} \\ 34 \quad 27 \\ + \quad 18 \\ \hline \end{array}$

d. $\begin{array}{r} \text{h} \quad \text{min} \\ 42 \quad 39 \\ + 17 \quad 6 \\ \hline \end{array}$

e. $\begin{array}{r} \text{h} \quad \text{min} \\ 43 \quad 29 \\ - \quad 14 \\ \hline \end{array}$

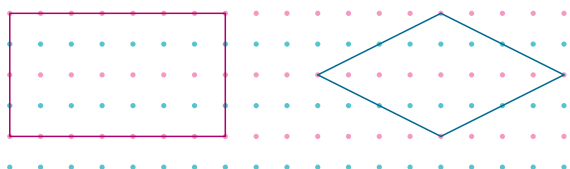
f. $\begin{array}{r} \text{h} \quad \text{min} \\ 28 \quad 15 \\ - 9 \quad 8 \\ \hline \end{array}$

g. $\begin{array}{r} \text{h} \quad \text{min} \\ 63 \quad 52 \\ - 57 \quad 34 \\ \hline \end{array}$

h. $\begin{array}{r} \text{h} \quad \text{min} \\ 85 \quad 40 \\ - 69 \quad 27 \\ \hline \end{array}$

1 Do these by joining dots in each shape.

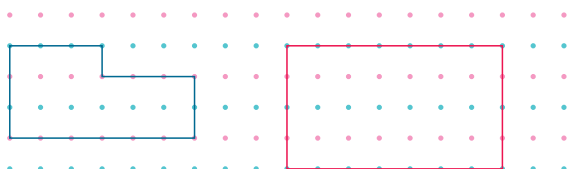
a. Draw 2 lines to make 4 triangles.



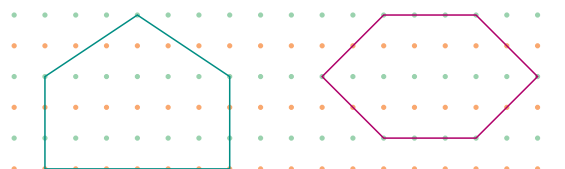
b. Draw 2 lines to make 1 rectangle and 2 triangles.



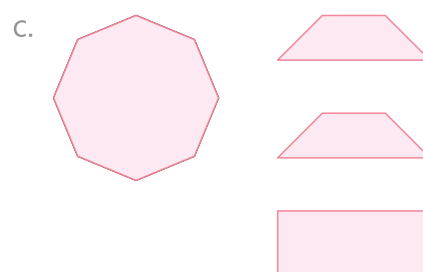
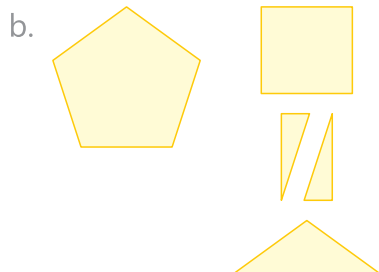
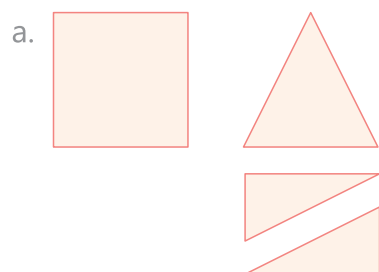
c. Draw 1 line to make 1 rectangle and 1 square.



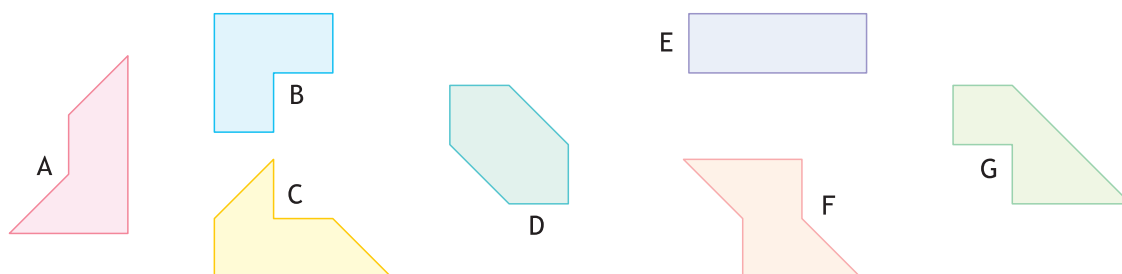
d. Draw 3 lines to make 4 triangles.



2 Draw lines to divide the large shape into the pieces shown on its right.



3 Draw a line to divide shape A in two pieces so that you can make all the other shapes using the pieces. Also draw a line in each of the other shapes to show how the pieces fit.

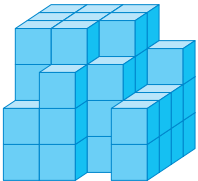


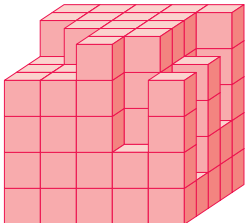


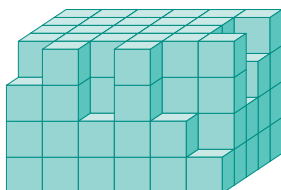
1 Fill in.

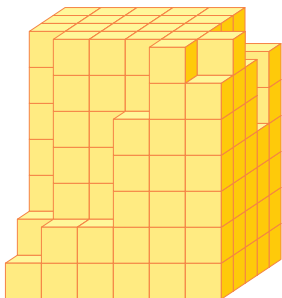
- a. In a solid shape, an edge is formed where two _____ meet.
- b. In a pyramid, the triangles rising from the sides of the base meet at the _____.
- c. The polygonal ends of a prism are joined by _____ faces.
- d. There are _____ faces, _____ edges and _____ vertices in a pentagonal prism.
- e. The base of a heptagonal pyramid has _____ sides.
- f. A _____ prism is also a cuboid.

2 How many cubes? How many more cubes are needed?

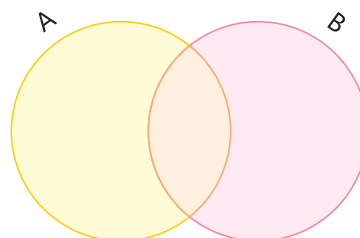
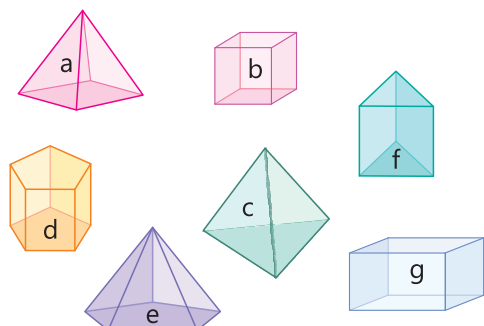
a.  _____ cubes.
 _____ more make
 a larger cube.

b.  _____ cubes.
 _____ more make
 a larger cube.

c.  _____ cubes.
 _____ more make
 a large cuboid.

d.  _____ cubes.
 _____ more make
 a large cuboid.

3 Sort the shapes using the circles.



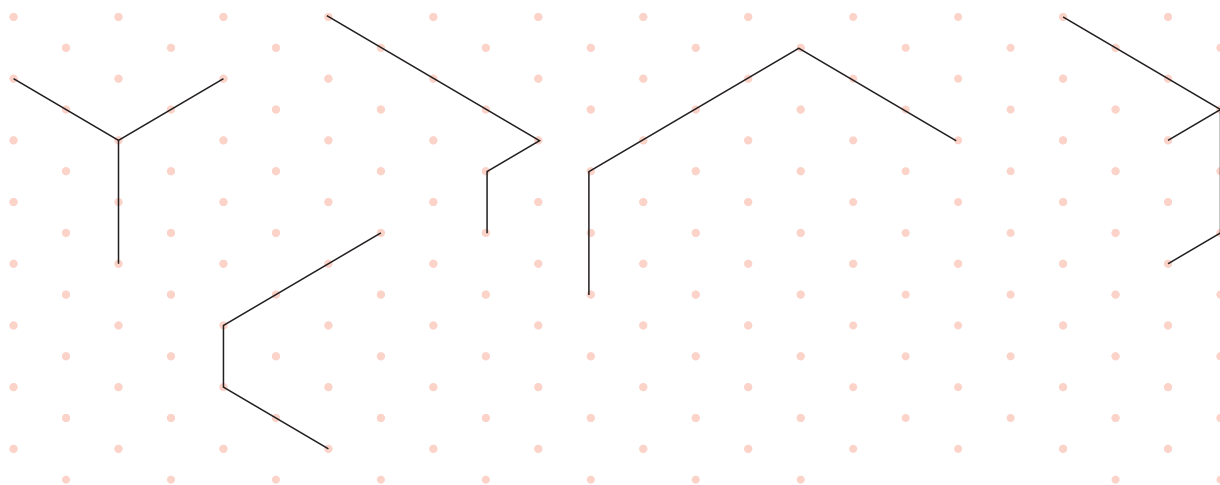
- A: Shapes in which the number of faces = the number of vertices
 B: Shapes which have more than 8 edges



1 Colour squares to show the views.

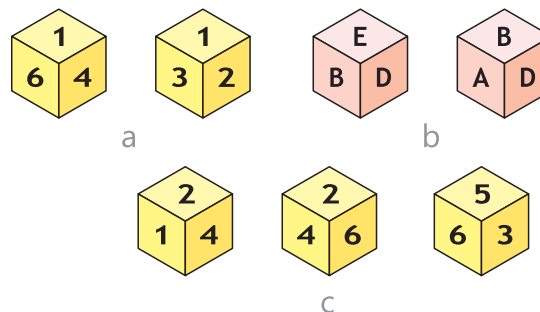
	Front view	Left-side view	Right-side view	Top view
a.				
b.				
c.				

2 Complete the drawings to make the corner views of cubes and cuboids.

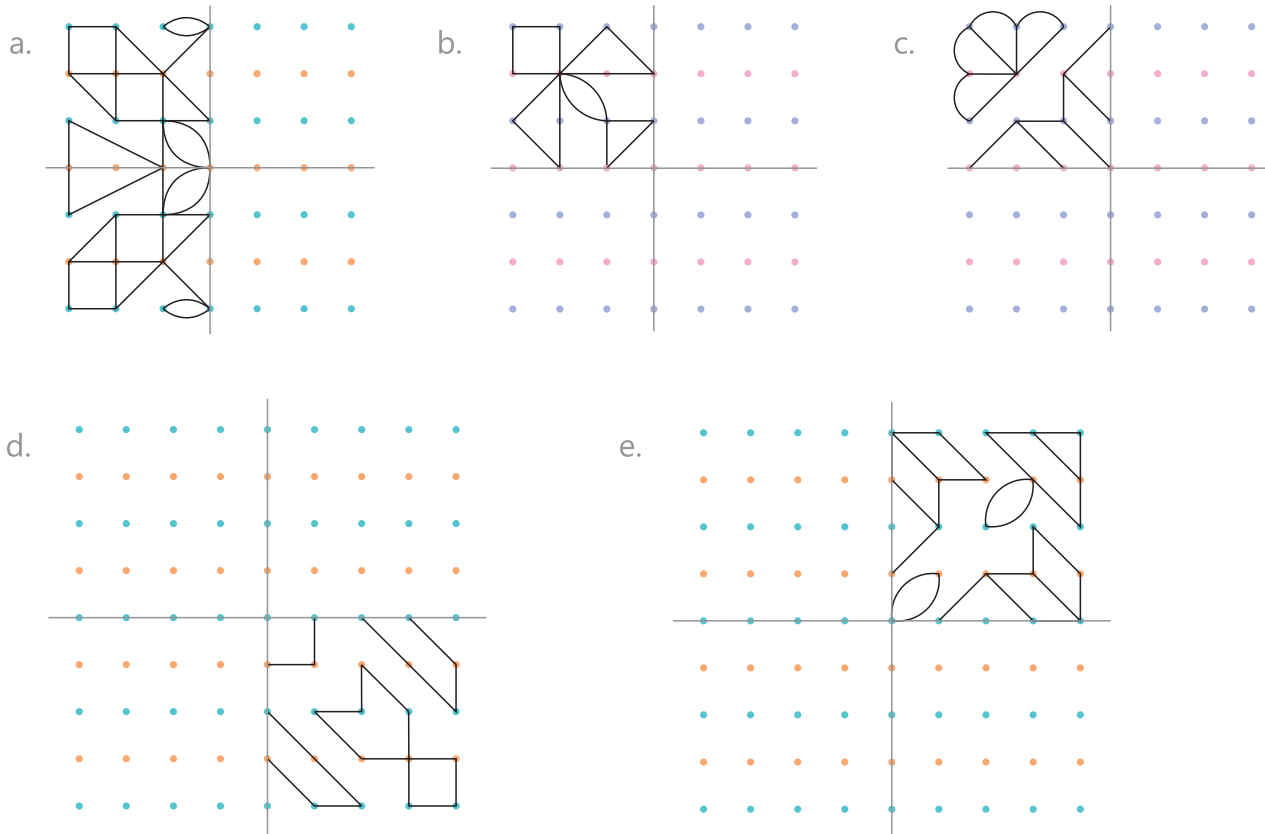


3 Fill in.

- The number opposite 6 is _____.
- The letter opposite E is _____.
- The number opposite 3 is _____ and the number opposite 5 is _____.



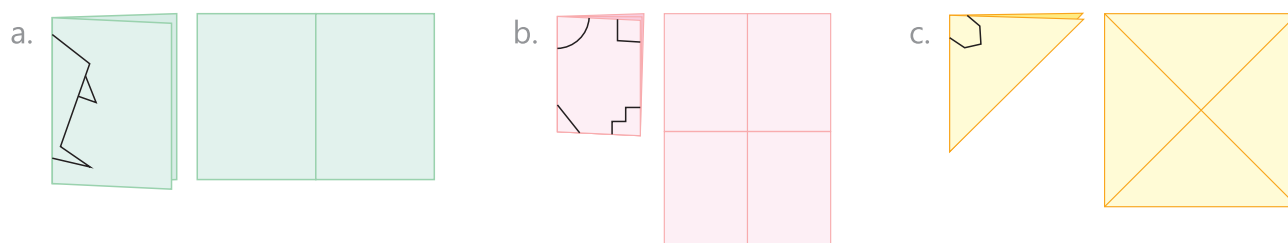
1 Complete these designs so that they are symmetrical in shape and colour.



2 Write the mirror image. Tick the numbers that look the same in both mirrors.

	a. 795	b. 101	c. 429	d. 8118	e. 3131
Mirror on the right					
Mirror above					

3 Draw and show how the paper looks after cutting the shapes and opening the folds.





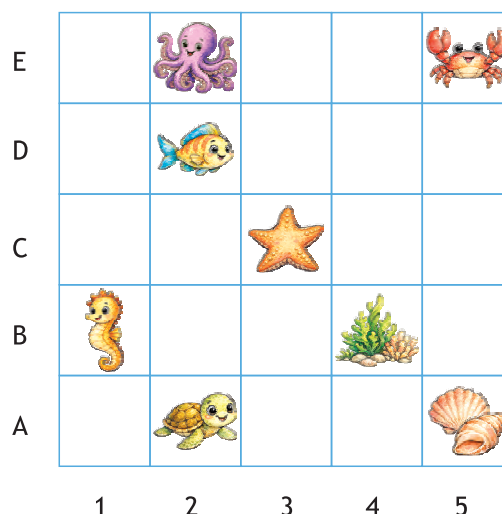
1 Look at the grid and fill in.

- a. The robot is in the _____ row, _____ column.
- b. The _____ is in the third row, first column.
- c. The _____ is in the first row, first column.
- d. The doll is in the _____ row, _____ column.
- e. The teddy bear is in the _____ row, _____ column.



2 Write the positions of these.

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____
- f. _____
- g. _____
- h. _____

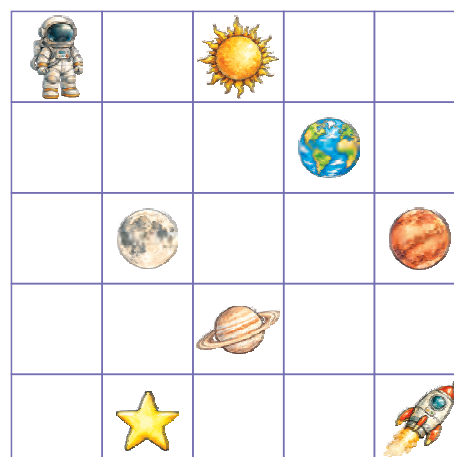


3 Draw arrow codes for the steps. Move only through empty squares.

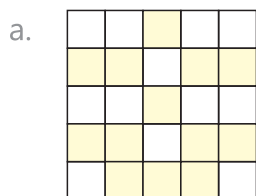
- a. From the to the :

- b. From the to the :

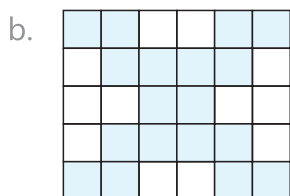
- c. From the to the :



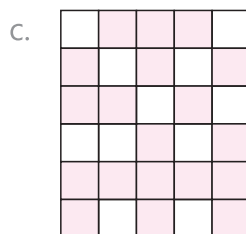
1 If each small square has side 1 cm, find the area of the shaded part.



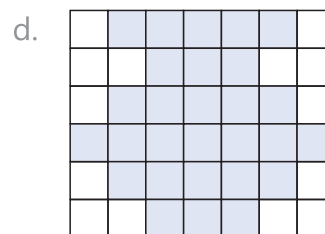
Area = sq cm



Area = sq cm

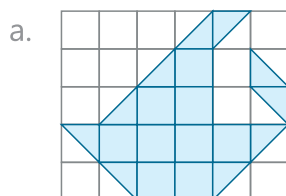


Area = sq cm

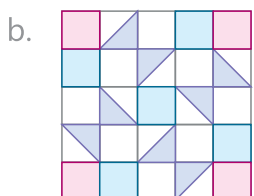


Area = sq cm

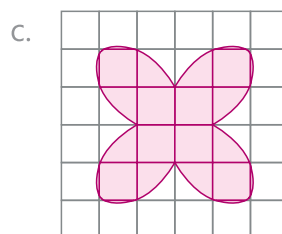
2 The side of each small square is 1 cm. Estimate the area of the shaded part. If clearly more than half of a square is shaded, count it as 1. If about half is shaded, add it with another half and count 1. If clearly less than half is shaded, do not count it.



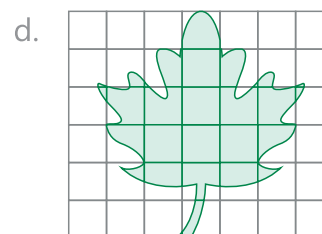
Area = about



Area = about

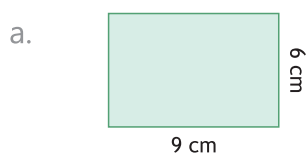


Area = about



Area = about

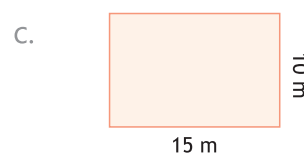
3 Calculate the area.



Area = ×
=



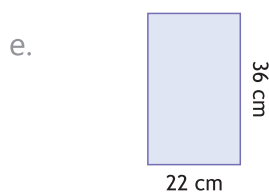
Area = ×
=



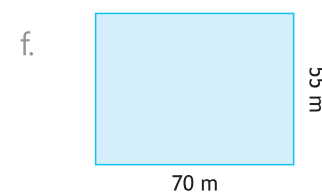
Area = ×
=



Area = ×
=



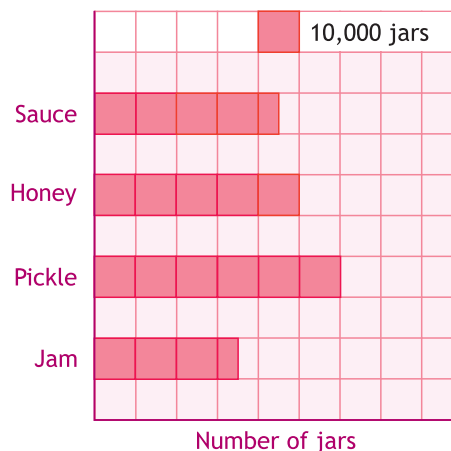
Area = ×
=



Area = ×
=

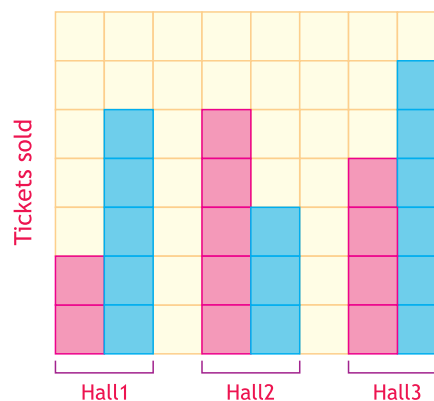
- 1 The bar graph shows the number of jars of different food items sold by a shop in a year. Fill in.

- What kind of food jar sold the most?
_____ jar
- _____ sauce jars were sold.
- The total number of jars sold was _____.
- The shop sold _____ fewer jam jars than honey jars.
- The fraction of pickle jars sold was _____ of the total jars sold.



- 2 The chart shows how many tickets were sold in the morning show (pink) and the evening show (blue) in three different halls in a multiplex. Each cell stands for 45 tickets.

- _____ tickets were sold in Hall 1 in all.
- Which hall sold the highest number of tickets for the morning show? _____
- _____ fewer tickets were sold in Hall 2 than in Hall 1 for the evening show.
- In total, _____ more tickets were sold in Hall 3 than in Hall 2.



- 3 A fruit seller sold 18 kg mangoes, 16 kg watermelons, 10 kg grapes and 12 kg apples. Make a bar graph to show this.

