



Draw lines to match each of the four animals with the most appropriate unit to measure their mass.



kilograms

tonnes

grams

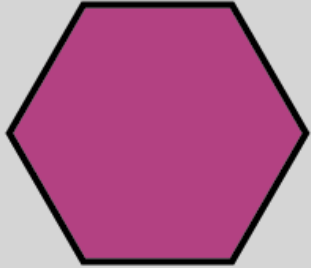
milligrams

Flag



Next





How many pairs of parallel sides does a regular hexagon have?

- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 6



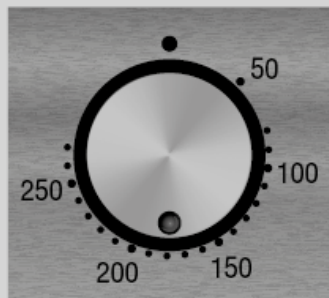
Sam found this table on the internet.



### OVEN TEMPERATURES IN DEGREES CELSIUS

Celsius	Description
110°	very slow
135°	slow
165°	moderately slow
180°	moderate
205°	moderately hot
220°	hot
245°	very hot
260°	extremely hot

Which of these describes the temperature shown on this oven dial?




☐ moderate

☐ moderately slow

☐ moderately hot

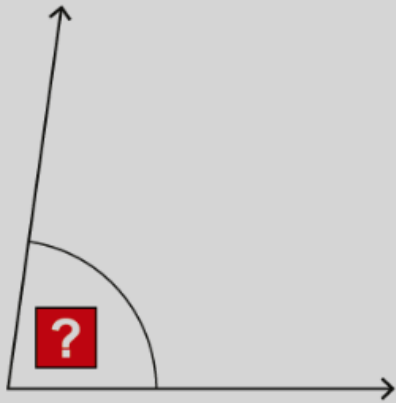
☐ hot



Tim, Sue and Raj delivered leaflets after school. Tim delivered 36 leaflets. Sue delivered 7 more than Tim and Raj delivered 16 less than Sue. 

Which of these expressions represents the total number of leaflets they delivered?

- ☐  $36 + 7 - 16$
- ☐  $36 + 7 + 7 - 16$
- ☐  $36 + 36 + 36 + 7 - 16$
- ☐  $36 + 36 + 36 + 7 + 7 - 16$



What is the size of this angle?

- ☐ 78°
- ☐ 82°
- ☐ 98°
- ☐ 102°



\$36



\$92



\$58

Which of the following expressions gives the best estimate for the total cost of these three items?

- ☐  $\$30 + \$90 + \$50$
- ☐  $\$30 + \$90 + \$60$
- ☐  $\$40 + \$90 + \$60$
- ☐  $\$40 + \$100 + \$60$



There are 12 pegs in a basket. Five pegs are red and the rest are blue. Anna picks one without looking. What is the chance she picks a blue peg?

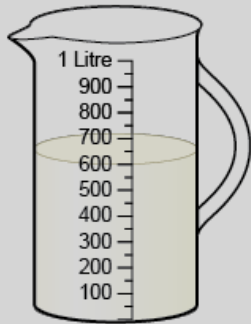
- ☐  $\frac{1}{2}$
- ☐  $\frac{1}{7}$
- ☐  $\frac{5}{12}$
- ☐  $\frac{7}{12}$



Jim had this full bottle of milk.



He poured some of the milk into this jug.



How much milk was left in the bottle?

☐ 400 mL

☐ 500 mL


☐ 600 mL


☐ 800 mL





The numbers in this pattern increase by the same amount.

0.1, 0.5, 0.9, 

What number must  be?

☐ 0.13

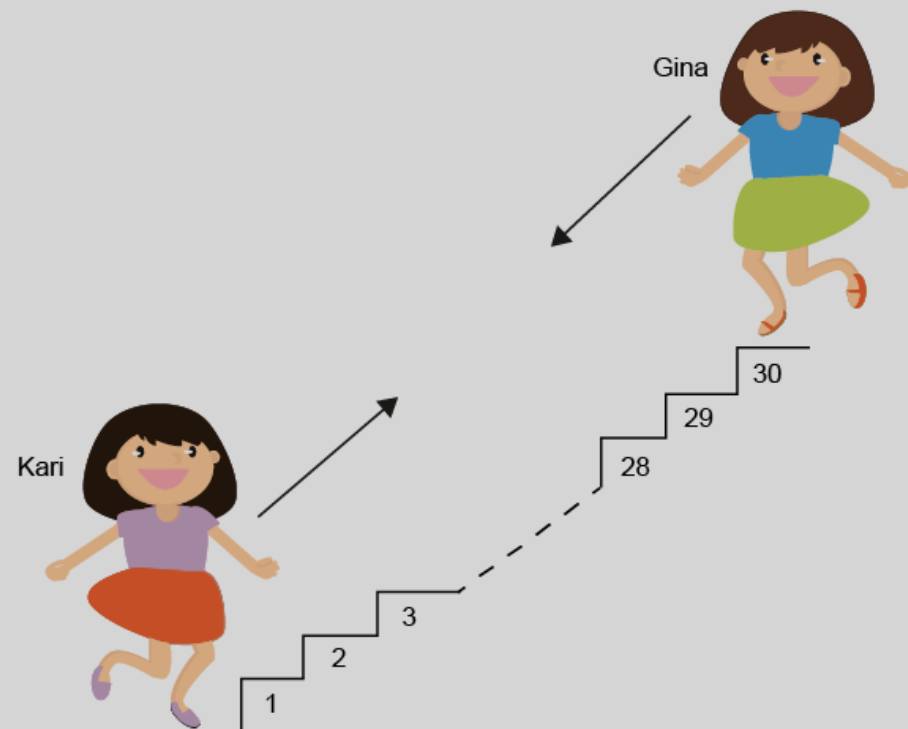
☐ 0.49

☐ 1.3

☐ 1.13



Kari and Gina are standing at opposite ends of a 30-step staircase.



They start walking towards each other at the same time.

Gina walks down 3 steps every second.

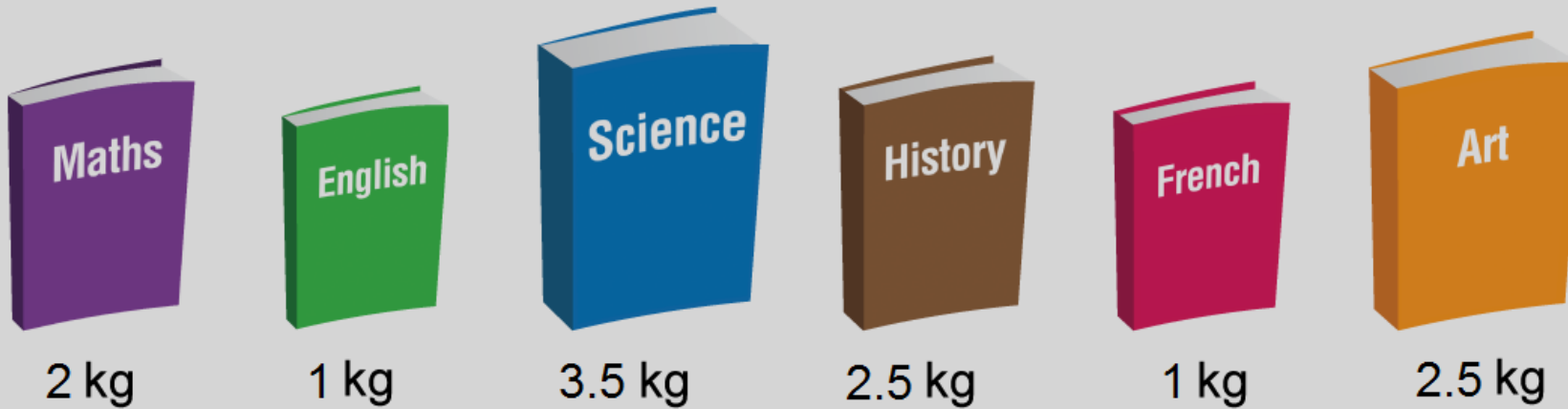
Kari walks up 2 steps every second.

On which step will they meet?

☐ 18☐ 15☐ 12☐ 10



Henry has six books.



He selects four of the books to put in his bag.

The total mass of the books is 7 kilograms (kg).

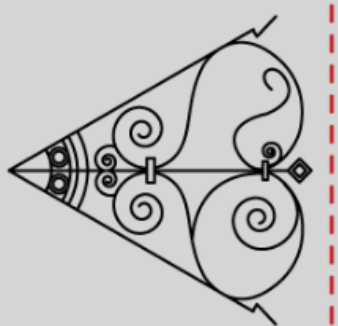
Place these four books in Henry's bag.

**Maths****English****Science****History****French****Art**

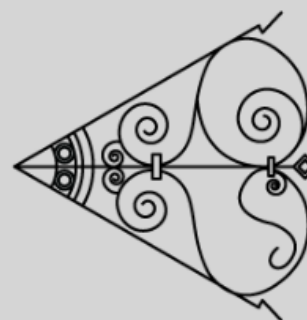
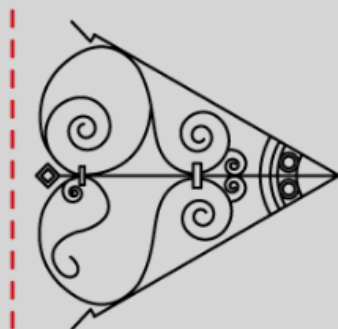
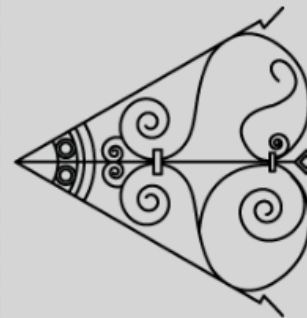
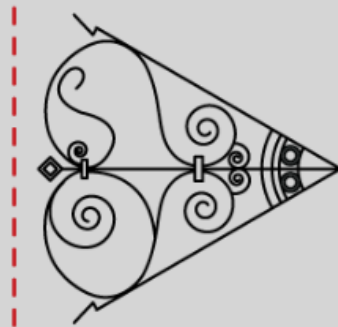
Henry's bag



This shape is reflected across the dotted line.

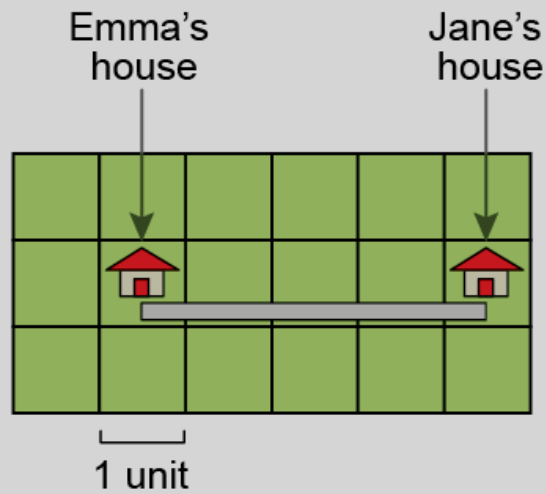


Which of these is the reflected shape?





The entrance to Emma's house is 200 metres from the entrance to Jane's house as shown.



What does 1 unit on the map represent?

- ☐ 20 metres
- ☐ 25 metres
- ☐ 40 metres
- ☐ 50 metres



Four puppies and their ages are shown.



Floss

20 months



Spot

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



Rocket

55 weeks



Buster

345 days

Which puppy is the oldest?



Floss



Spot



Rocket



Buster



In a test, there are 50 questions. If a question is answered correctly, then 2 marks are awarded, but if it is answered incorrectly, then 1 mark is subtracted.

Victor answered every question in the test and scored 40 marks.

How many questions did Victor answer correctly?

☐ 20

☐ 25

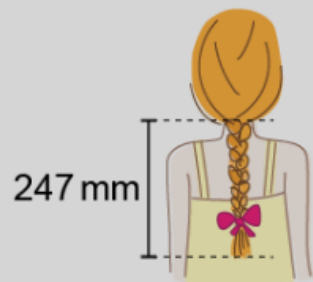
☐ 30

☐ 35



Lisa and Alana are tying their hair.

Lisa braids her hair. Her braid is 247 millimetres (mm) long.



Alana ties her hair in a ponytail. Her ponytail is 32.4 centimetres (cm) long.



Which of these is the correct comparison between the two girls' hairstyles using the given measurements?

	Longer hair when tied	Difference in length
(A)	Lisa	77 mm
(B)	Alana	7.7 cm
(C)	Lisa	21.5 cm
(D)	Alana	123 mm





There are 22 marbles in a bag. The marbles come in 5 different colours.

There are 2 blue and 8 yellow marbles. The number of green marbles is half the number of yellow marbles, and the number of white marbles is double the number of blue marbles. All the rest are black marbles.

Harry draws out a marble at random.

Which marbles have the same chance of being drawn out? Tick **all** colours that apply.

☐ green

☐ yellow

☐ blue

☐ white

☐ black



$$7 \times 11 \times 13 = 1\ 001$$

What does  $7 \times 121 \times 130$  equal?

- ☐ 10 010
- ☐ 11 011
- ☐ 101 110
- ☐ 110 110



Anish drew this shape.



He rotated it anticlockwise by a quarter of a turn.

Which of these shows the shape after this rotation?





$$6 + 12 \div 3 = \boxed{?} - 1 \times 2$$

What number must  $\boxed{?}$  be?

☐ 12

☐ 8

☐ 6

☐ 4



Sarah is playing a game. She must use the map and the instructions to find the treasure.



Start at the shipwreck  
on G11.

Travel 1 kilometre south.

Turn west and travel  
750 metres.

Next, turn south and  
travel 500 metres.

Finally, turn east and  
travel 250 metres.

The treasure is  
buried there.

Where is the treasure buried?

☐ I5

☐ H4

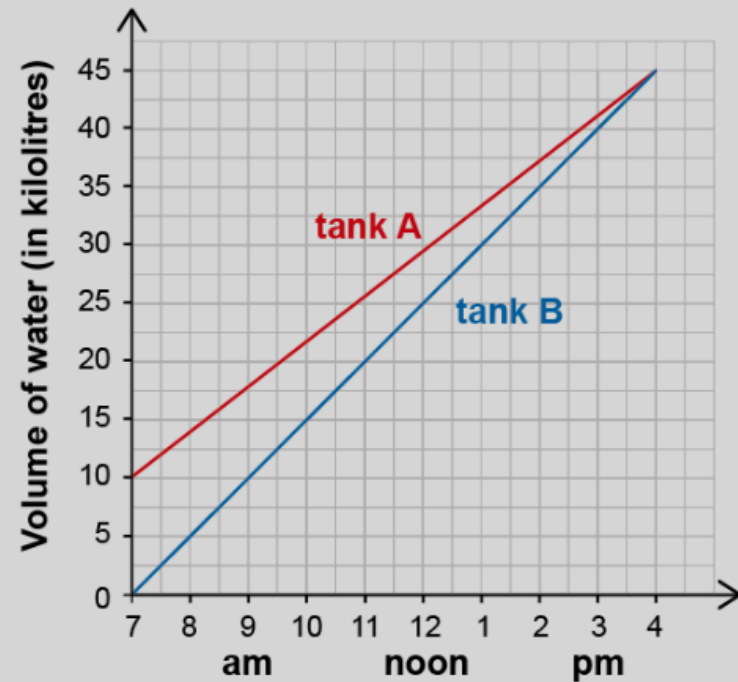
☐ F5

☐ E5



Farmer Jones had two water tanks, tank A and tank B, that he needed to fill. He turned on the taps at 7 am. Both tanks finished filling at the same time.

The line graph shows the volume of water in each tank during the day.



Select **all** of the statements that are correct.

☐

Water was poured into each tank for 9 hours.

☐

Both tanks were empty at 7 am.

☐

At 11:30 am, tank A had 10 kilolitres more water than tank B.

☐

At 1 pm, tank B was two-thirds full.

☐

The total capacity of both tanks combined is 90 kilolitres.



Arun is at a theme park waiting in a queue for the Wild Jet ride. Every 3 minutes, a boat with 5 people leaves.

A boat leaves and Arun counts 26 people ahead of him in the queue.

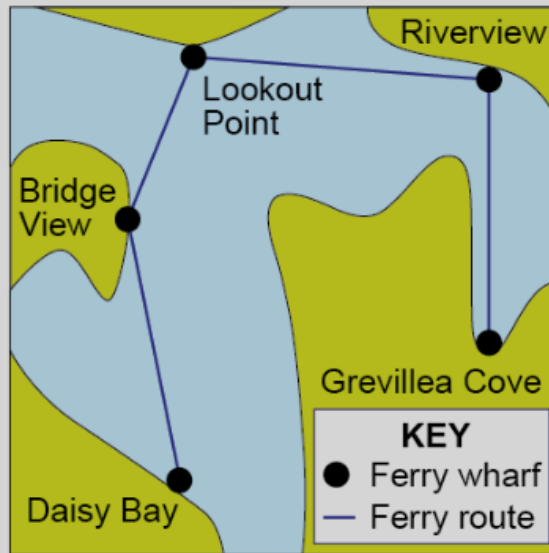
How many minutes will Arun have to wait until his boat leaves?

- ☐ 15
- ☐ 18
- ☐ 21
- ☐ 27



Sally boards a ferry at Daisy Bay at 11:12 am.

The ferry departs 10 minutes later and stops for 8 minutes at each of the wharves along the route before arriving at Grevillea Cove at 1:05 pm.



How long was Sally's ferry ride **not** counting the time spent at wharves?



79 minutes



93 minutes



103 minutes



119 minutes





Ann has some triangles that are identical to the triangle shown.

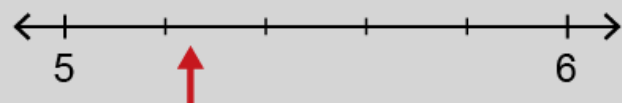


What is the smallest number of these triangles that Ann can fit together to make a larger triangle?

- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 9



This number line has equal intervals marked.



Which of these numbers could be indicated by the arrow?

- ☐ 5.15
- ☐ 5.2
- ☐ 5.25
- ☐ 5.3

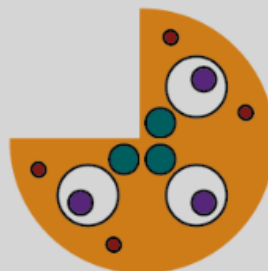
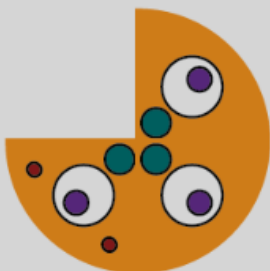
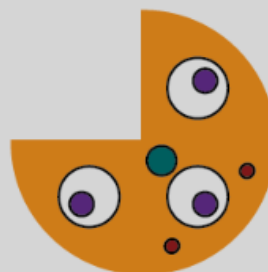
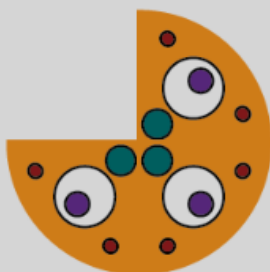


This picture shows one quarter of a design.



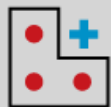
The design has only two lines of symmetry.

Which of these could be the other three quarters of the design?

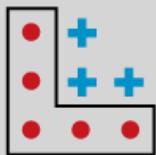




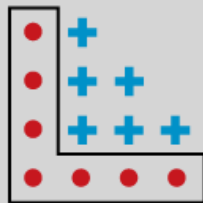
Adam is making a pattern of shapes.



shape 1



shape 2



shape 3

What should be the total number of spots and crosses in shape 6?

☐ 34

☐ 32

☐ 28

☐ 26



Phil has 99 stamps and 8 stamp books. He puts an equal number of stamps in each book.

Which of these **cannot** be the number of stamps left over?

☐ 11

☐ 25

☐ 43

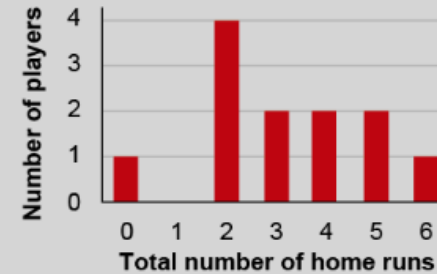
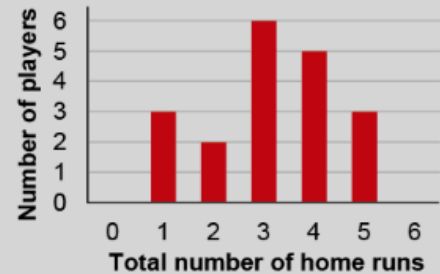
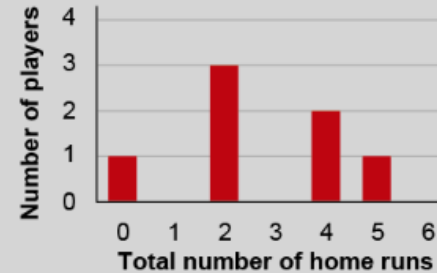
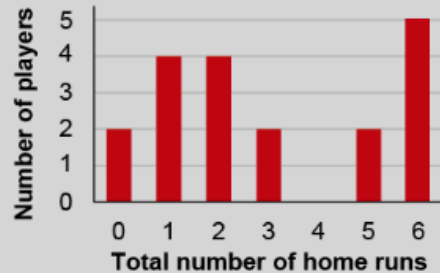
☐ 51



This table shows the number of home runs scored by some players in a softball team.

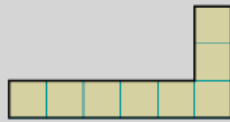
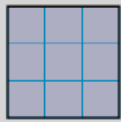
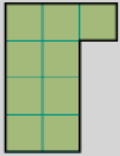
Player	Game					Total
	1	2	3	4	5	
Milly	0	1	0	0	1	2
Pam	1	0	0	2	1	4
Jane	1	1	2	0	0	4
Ruby	0	0	1	1	0	2
Alison	0	0	0	0	0	0
Jess	0	0	1	1	0	2
Liz	1	0	2	1	1	5
Total	3	2	6	5	3	19

Which graph shows the number of players who scored a given number of home runs?



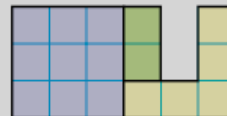
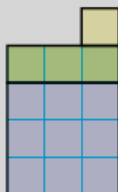
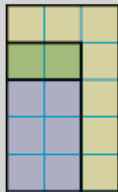


Kim had these three shapes.



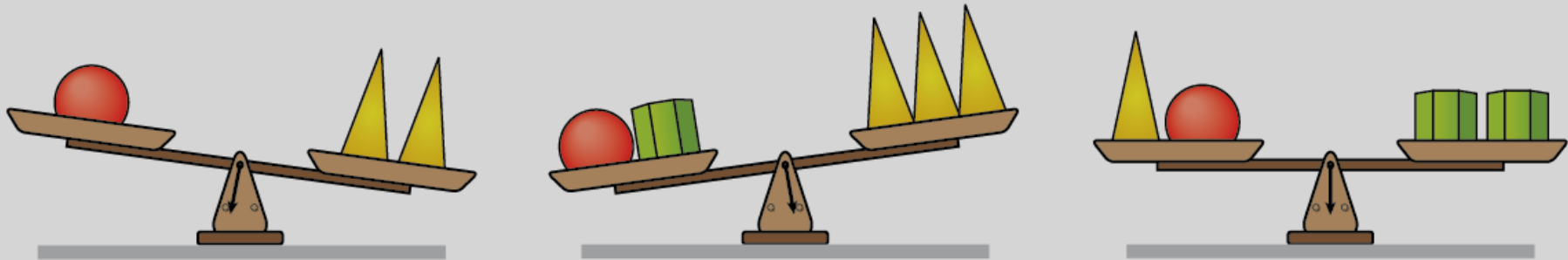
She overlapped them to make a shape with the smallest possible area.

Which shape did Kim make?





Jane used a set of balance scales to compare the masses of some solids. Solids with the same shape had the same mass. Her results are shown below.



Order the solids from lightest to heaviest.



lightest

heaviest





At Lisbon Post Office there are 5 rows of post boxes and 40 post boxes in each row. Some of the post boxes are shown in the diagram. The boxes in each row are numbered consecutively with a 3-digit number. The first digit on each box indicates which row the box is in. Those beginning with the digit 1 are in the top row, those beginning with the digit 2 are in the second row and so on.

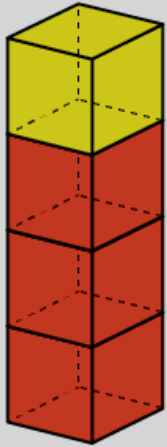


How many post boxes have a 3-digit number where each digit is odd?



Lai has 3 yellow blocks and 3 red blocks. Each block is the same size.

She uses 4 blocks to make a stack.



How many different stacks of 4 blocks can she make if at least two of the blocks are yellow?

☐ 10

☐ 11

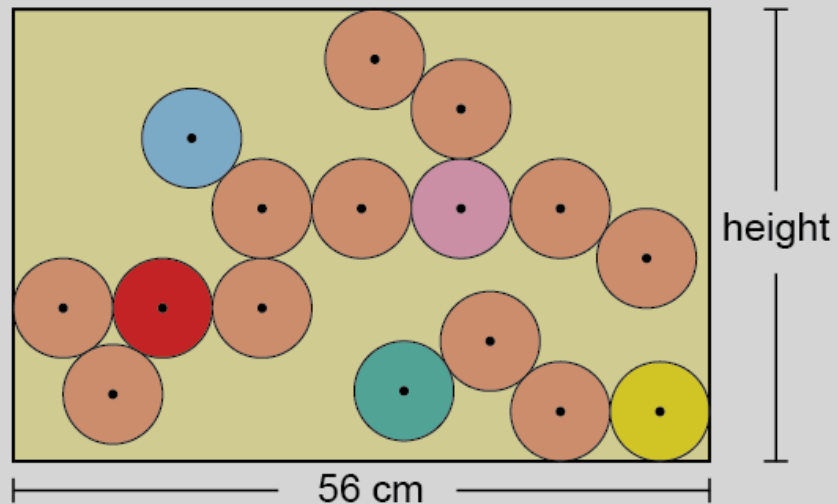
☐ 12

☐ 14



John has made a drawing of some circles inside a rectangle. The centre of each circle is marked with a dot.

The length of the drawing is 56 centimetres (cm).



What is the height of the drawing, in centimetres?

 cm



Half an hour before a show started, a hall was half full.

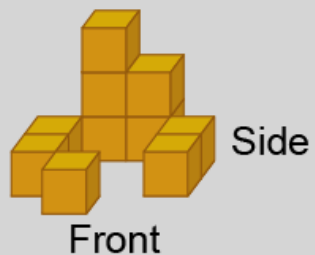
By the time the show started, another 300 people had arrived and the hall was now nine-tenths full.

What is the capacity of the hall?

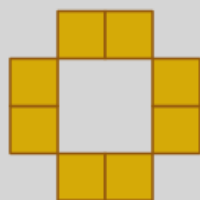
people



Ben stacked his cubes to make this pattern.



He wants to add more cubes so his pattern matches these views.



Top view



Front view



Side view

What is the minimum number of cubes Ben needs to add?

☐ 2

☐ 3

☐ 4

☐ 5



The fractions in this pattern increase by the same amount.

$$\frac{1}{4}, \frac{1}{3}, \frac{5}{?}, \frac{1}{2}$$

What number must **?** be?

- ☐ 11
- ☐ 12
- ☐ 13
- ☐ 14

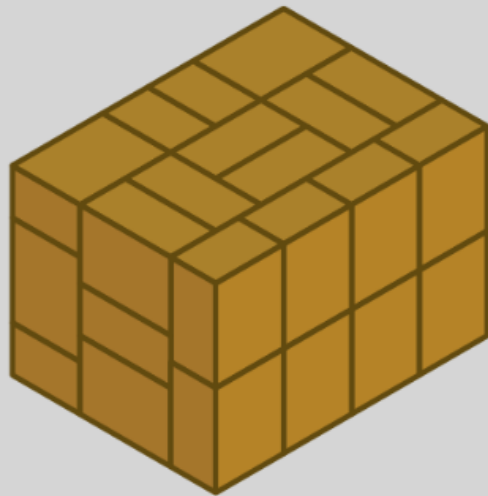


Rani has some identical wooden blocks.



The volume of each block is  $24 \text{ cm}^3$ .

She uses the blocks to make this rectangular prism.



What is the volume of the rectangular prism?




$\text{cm}^3$



Mrs Ho gave her class the following problem involving multiplication of a three-digit number by a one-digit number.

$$\begin{array}{r} \text{Yellow Circle} \text{ Star } 8 \quad \times \\ \hline \phantom{\text{Yellow Circle} \text{ Star }} 9 \\ \hline \text{Red Hexagon} \text{ Blue Square} \text{ Green Triangle} \\ \hline \end{array}$$

Each symbol represents a different digit.

What number is represented by    ?