Kármán line

The Market – Day 6

B: £1
S: £1.10

B: £70
S: £80

B: £1000
S: £300

B: £2000
S: £4000

Sell | 1 | 2 | 3

B: £2300
I: £700

Auction
1 a day
I: £1250

Section One

Section Two

Final answer

Literacy

Key skills

Problem solving

Area of a triangle

Exam question

Place value

Puzzle

Start with the number 100 and follow it through the set of instructions.

Divide by 2		**Divide by 20**		**Divide by 200**	
Add 14		**Divide by 2**		**Divide by 0.25**	
Divide by 8		**Multiply by 10**		**Cube it**	
Subtract 10		**Square root**		**Square it**	
Add 4		**Add 120**		**Cube root**	
Square it		**Cube root**		**Divide by $\frac{1}{3}$**	
Final answer		**Final answer**		**Final answer**	

1

A $9 \times (-3) =$

B $9 \div (-3) =$

C $9 + (-3) =$

D $-9 - 3 =$

2

A $5^2 =$

B $50^2 =$

C $0.5^2 =$

3 Complete the table by creating a row of equivalent values.

Fraction	Decimal	Percentage
$\dfrac{1}{4}$		
	0.6	
		20%

Calculate the area of triangle A when,

Work out the value of x when,

1	$b = 6cm$
	$h = 5cm$

A	$b = 2.5cm$
	$h = 4cm$

$B = 12cm^2$

2	$b = 10cm$
	$h = 8cm$

B	$b = 24cm$
	$h = 12cm$

$B = 31.5m^2$

3	$b = 4cm$
	$h = 4cm$

C	$b = 0.5m$
	$h = 0.8m$

$C = 9\,000cm^2$

A

h

b

B

x

$x + 2$

C

x

$3m$
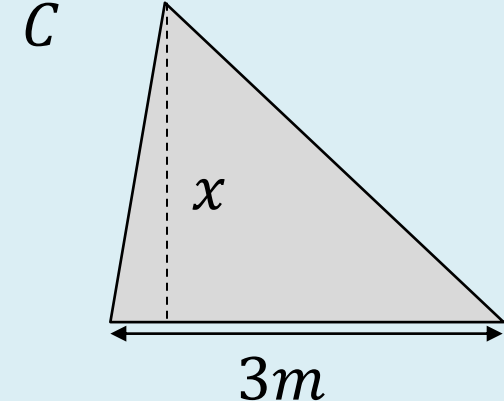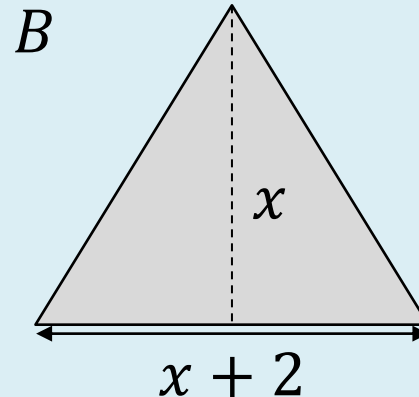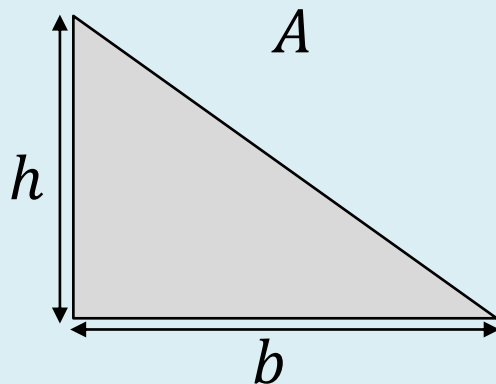
Place value

Round 1 (Round 2 in week 5)

- This game is to be played with a partner.
- The digits 0 to 9 are to be used once only.
- Write the numbers 0 to 9 in the blank spaces to make a single digit number, 2 digit, 3 digit and 4 digit number.
- Make sure your partner cannot see what you are doing. Cover your numbers with a piece of paper.
- Reveal the single digit number first and if it is bigger than your partners you win 1 point.
- Reveal the 2 digit number and if yours is bigger you win 2 points.
- Continue for the 3 digit number (3 points).
- Bigger 4 digit number wins 4 points.
- Winner is the player with the most points.

Points

Reflections

Reflect on the first section.

WWW:

EBI:

Across

4. The difference between 1 and -1
5. Third multiple of 10
7. Half a circle
8. The sum of 8 and 12

Down

1. Four sided shape
2. The product of 12.5 and 4
3. 3 squared
6. Less than 90 degrees
7. 5.641 rounded to the nearest integer
9. 2 cubed

1 Howard is out running. He is now $\frac{3}{5}$ of the way through the second half of his run. What fraction of the whole run has he completed?

2 How many of these four expressions are perfect squares?

$$1^3 + 2^3 \qquad\qquad 1^3 + 2^3 + 3^3 + 4^3 + 5^3$$

$$1^3 + 2^3 + 3^3 \qquad\qquad 1^3 + 2^3 + 3^3 + 4^3$$

A 0   B 1   C 2   D 3   E 4

3 Which of the following expressions has a value that differs from the others?

A $20 \times 10 + 20 \times 10$

B $(20 \div 10) \times 20 \times 10$

C $20 \times 10 \times (20 \div 10)$

D $20 \times 10 + 10 \times 20$

E $(20 \div 10) \times 20 + 10$

1 Joanne wants to buy a dishwasher.

The dishwasher costs £372

Joanne will pay a deposit of £36

She will then pay the rest of the cost in 4 equal monthly payments.

How much is each monthly payment?

(2 marks)

2 $\frac{4}{5}$ of a number is 32.

Find the number.

(2 marks)

Puzzle

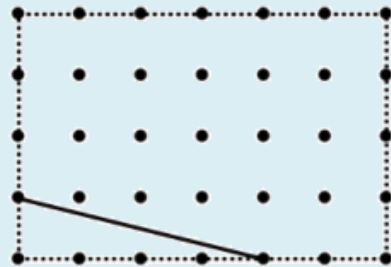Complete the shape so that it is $\frac{1}{4}$ of the rectangle.
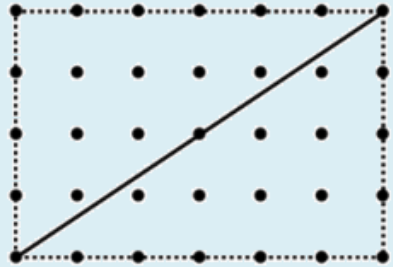
a triangle
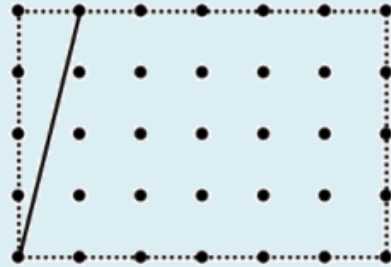
a triangle
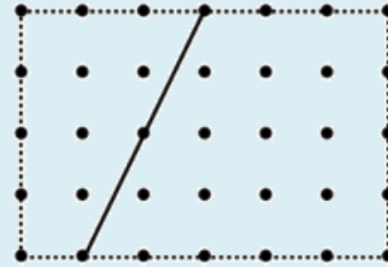(2 answers)
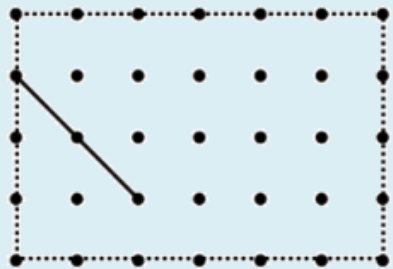
a triangle
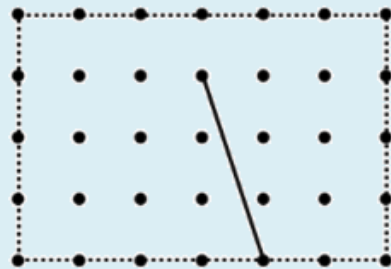
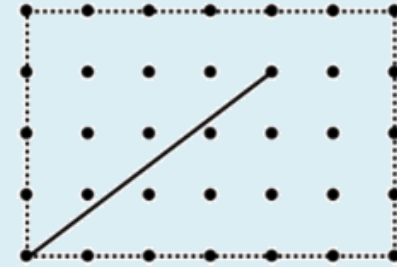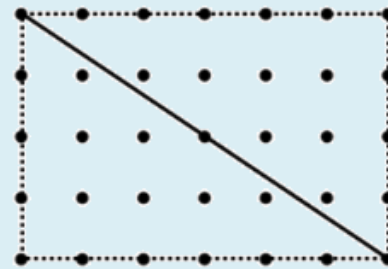a triangle
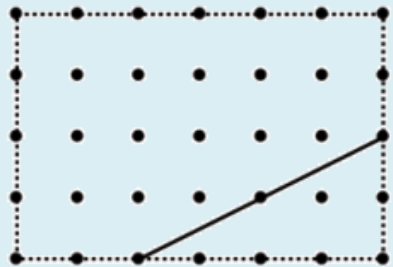
a triangle

a triangle

Complete the shape so that it is $\frac{1}{3}$ of the rectangle.
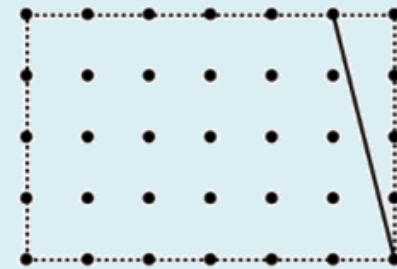

a triangle
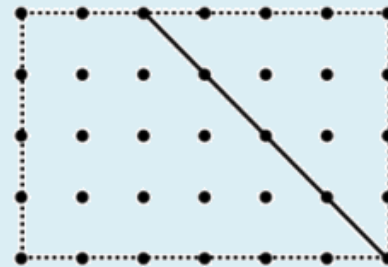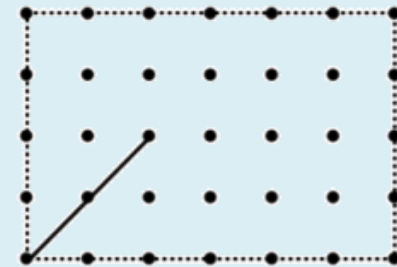

a triangle

a triangle

a parallelogram

a parallelogram

a parallelogram

Well done for completing the lesson.

Reflection