



Year 7 Trial Exam

Maths

February 2024

Topic	Score out of 5 In this test
I can multiply and divide by integers	
I can multiply and divide with decimals	
I can find the area of triangles and quadrilaterals	
I can find the mean of a set of integers	
I can find the mean of decimal, directed or algebraic terms	

Name:

Tutor Group:

Maths Teacher:

Time allowed: **45 minutes**

Total marks available: **25 marks**

I can multiply and divide by integers

(Sparx M187, M354, M262)

Work out

$3 \times 7 = \dots\dots\dots$

$9 \times 5 = \dots\dots\dots$

$8 \times 4 = \dots\dots\dots$

$20 \div 2 = \dots\dots\dots$

$49 \div 7 = \dots\dots\dots$

$54 \div 9 = \dots\dots\dots$

Calculate

$79 \times 6 \dots\dots\dots$

Calculate

$784 \div 4$

.....

Work out

382×47

.....

0	Working below	X
1	Working towards	
2	Working towards	✓
3	On Track	
4	Working above	
5	Working above	

I can multiply and divide with decimals

(Sparx M803, M491, M803)

Work out

$$3.4 \times 6 \quad \dots\dots\dots$$

Calculate

$$0.03 \times 0.002 \quad \dots\dots\dots$$

Calculate

$$64 \div 5 \quad \dots\dots\dots$$

Give your answer as a **decimal**

0	Working below	✗
1		
2	Working towards	✓
3	On Track	
4		
5	Working above	

Calculate

$9.18 \div 0.9$

.....

Mikel is shopping for fruit to make a smoothie.

The prices for each fruit, in kg, are shown below.

Bananas	£0.90
Apples	£2.60
Strawberries	£8.81
Oranges	£2.25

Mikel buys

- 5kg of bananas
- 2kg of apples
- 1kg of strawberries
- 2kg of oranges

How much money does Mikel spend?

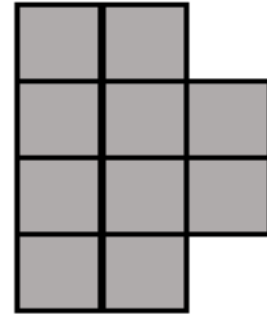
.....

0	Working below	✗
1		
2	Working towards	✓
3	On Track	
4		
5	Working above	

I can find the area of triangles and quadrilaterals

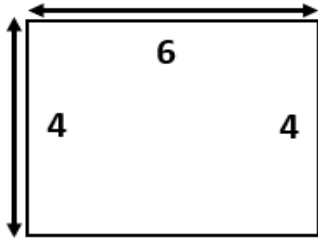
Sparx M900, M390, M291, N635, M610, M269

Find the area of this shape

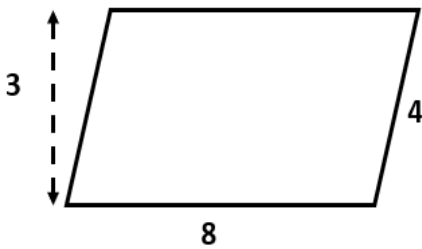


Area = _____ squares

Calculate the area of each shape. (All units are in centimetres)



Area =

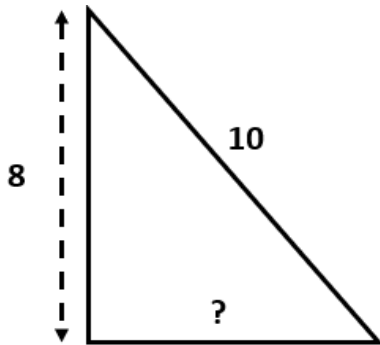


Area =

The **area** of the triangle is 24cm^2

Find the missing **length**

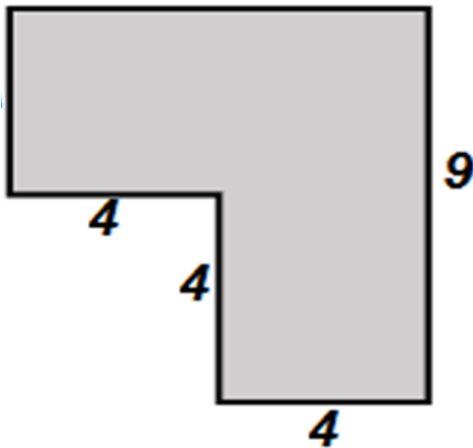
.....cm



The shape below is a compound shape. (All units are in centimetres)

Find the **area** of the shape

Area =



0	Working below	X
1	Working towards	
2	Working towards	✓
3	On Track	
4		
5	Working above	

I can find the mean of a set of integers

(Sparx M940)

Find the mean of each set of numbers

8, 6

Mean =

24, 6, 8, 2

Mean =

The value of each card has been hidden.

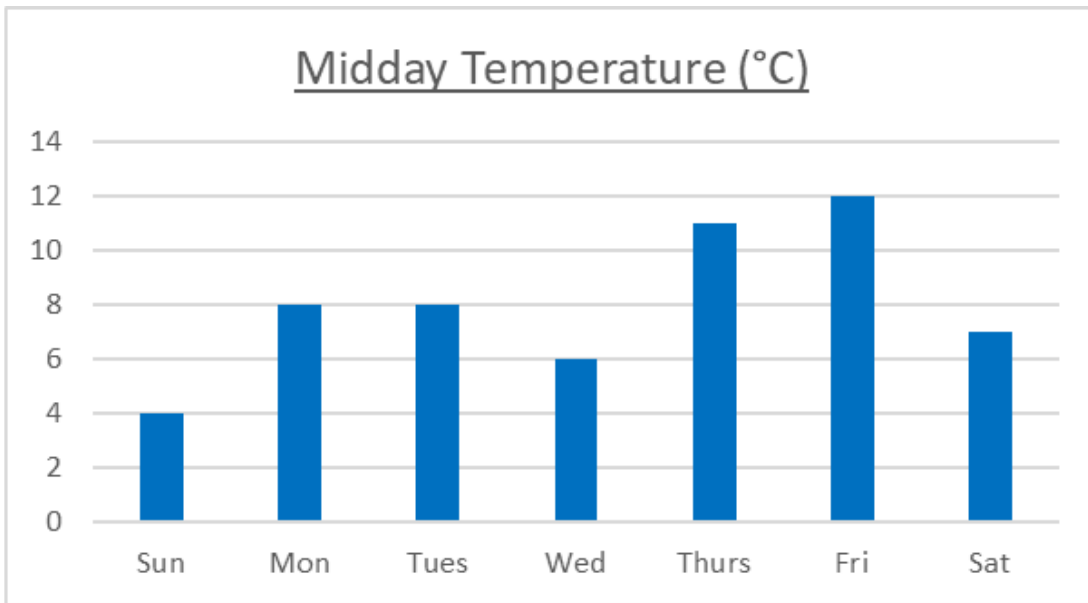
The **mean** of the cards is **12**.

The three cards have **different values**.

Fill in the cards.

The graph shows the midday temperature for a week.

Work out the **mean temperature**.



Mean Temperature =

0	Working below	X
1	Working towards	
2	Working towards	✓
3	On Track	
4		
5	Working above	

I can find the mean of decimal, directed or algebraic terms

(Sparx M940, M795)

Find the mean of each set of numbers

2.3, 6.1

Mean =

6, -7, 1, 0, -2, 14

Mean =

These cards have a mean of 10. Find x .



$x = \dots\dots\dots$

Hannah went on a holiday for a week.

The table shows **how many hours** she spent in the pool each day.

What is the **mean number of hours** that Hannah spends in the pool each day.

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
4	3	3.5	2.5	4	0	4

Mean =

Find the mean of these algebraic expressions.

$5x + 3$

$2x - 5$

$8x - 1$

Mean =

0	Working below	X
1	Working towards	
2	Working towards	✓
3	On Track	
4		
5	Working above	

Test Feedback

Highlight the Sparx Codes for the topics you need to improve on.

Use the Independent Learning on Sparx to complete tasks.

Topic	Sparx Codes	Tick when complete
I can multiply and divide by integers	M187	
	M354	
	M262	
I can multiply and divide with decimals	M803	
	M491	
	M803	
I can find the area of triangles and quadrilaterals	M900	
	M390	
	M291	
	N635	
	M610	
	M269	
I can find the mean of a set of integers	M940	
I can find the mean of decimal, directed or algebraic terms	M795	