

## Functional Maths

### Skills Check L1

Name: \_\_\_\_\_

Date started: \_\_\_\_\_

Date completed: \_\_\_\_\_

Score: \_\_ / 50

**Areas to revise. Tick appropriate boxes.  
(To be completed after work has been marked)**

Curriculum reference and topic		✓
L1.29	Mean and range Q2	
L1.22	Perimeter Q4	
L1.22	Area Q8, Q12	
L1.11 L1.20	Calculate with money Q1, Q5	
L1.23	Volume Q7	
L1.20	Calculating time Q19	
L1.20	Metric measures Q11	
L1.9	Fractions Q6, Q10, Q13	
L1. 21 L1.24 E3.21	Plans / Drawings / Diagrams / Shape. Q8, Q12, Q17	
L1.17	Ratio Q9, Q14, Q16	
L1.14 L1.18 L1.19	Percentages Q3, Q15, Q18	
many	Exam style multistep problems Q1, Q3, Q4, Q5, Q6, Q8, Q10, Q12, Q19	

Question	Max marks	Score
1	2	
2	3	
3	3	
4	2	
5	4	
6	2	
7	1	
8	4	
9	2	
10	2	
11	4	
12	6	
13	2	
14	1	
15	2	
16	2	
17	2	
18	2	
19	4	
<b>Total</b>	50	

**Do not use a calculator.**

**Please show all your workings in the boxes provided.**

**Some questions may also ask you to show a check of your working.**

# Functional Maths Skills Check



1. Sam is raising money to help the war heroes. Sam is selling badges. Each person pays £7.50 for a badge. Sam is hoping to raise £525. He thinks he will need to sell 65 badges to get this amount.

Is Sam correct?

2 marks

2. The cafe is open 6 days a week. Nicky says she needs to serve a mean number of 65 people a day to make a profit.

The number of people served in the café each day for one week.						
	Mon	Tue	Wed	Thu	Fri	Sat
Number of people	55	75	72	19	71	125

Nicky says the mean number of people served a day is more than 65.

a) Is Nicky correct? Show why you think this.

b) What is the range?

3 marks

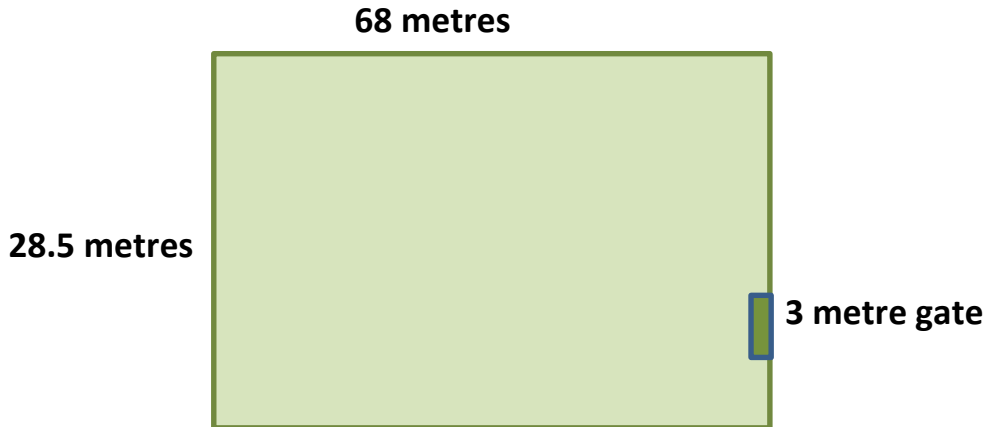
# Functional Maths Skills Check

3. Six students complete an assessment. To pass the assessment the students need to get at least 75% of the total marks. The total mark is 128.  
Tom scored 98 marks. Tom thinks he has passed the assessment.

Has Tom passed the assessment? **Show a check** of your working.

3 marks

4. Samya is building a fence around this field. The field is rectangular with a 3 metre gap for the entrance gate. How much fencing will she need?



2 marks

# Functional Maths Skills Check



5. Richard is organising a coach trip to watch a football match.

He is going to sell 70 tickets.

The tickets will include

- return coach travel to the match
- entry to the match.

Richard sees these prices.

Coach for 70 people with  
driver £350

Entry to the match  
£3 for each person

Richard needs to get enough money to pay for the coach with driver and entry to the match. He thinks he must sell each of the 70 tickets for at least £8. Is he right?

4 marks

6. Kay buys 3 packets of seeds. There are 50 seeds in each packet.

She plants  $\frac{2}{5}$  of the seeds in her vegetable patch.

How many seeds does Kay plant?

2 marks

# Functional Maths Skills Check

7. What is the volume of this swimming pool?



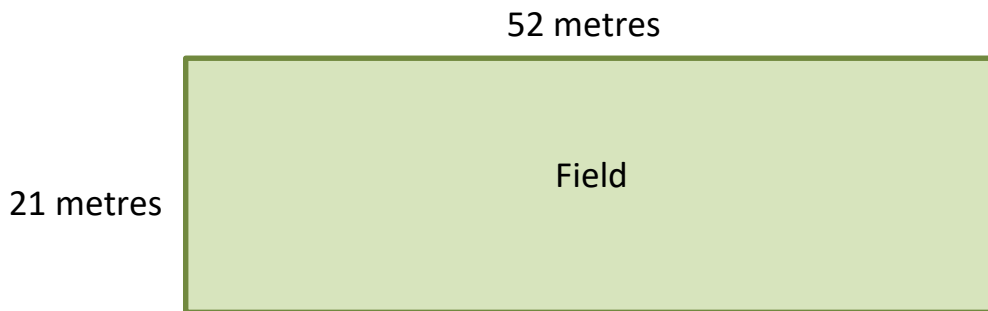
1 mark

8. A college is planning a car boot sale to raise money for the Forest of Dean dog rescue. Each car will be charged £7.50

\* Each car must have a space of 3m by 4m

a) How many cars can you fit on this field?

b) How much money will be raised?



4 marks

# Functional Maths Skills Check

9. I want to make orange paint. I mix 4 scoops of yellow to 3 scoops of red.  
How much yellow paint will I need if I use 21 scoops of red?

2 marks

10. Nicky wants to buy a new phone.  
The price of the phone is £240

She has a money off voucher: **1/4 off the original price**

How much would she pay for the phone?

2 marks

11. How many centimetres in 7 metres? \_\_\_\_\_ cm  
How many grams in a kilogram? \_\_\_\_\_ g  
How many 250g portions of dogfood can you get from a 2kg bag? \_\_\_\_\_  
How many millilitres are there in 2 litres? \_\_\_\_\_ ml

4 marks

# Functional Maths Skills Check

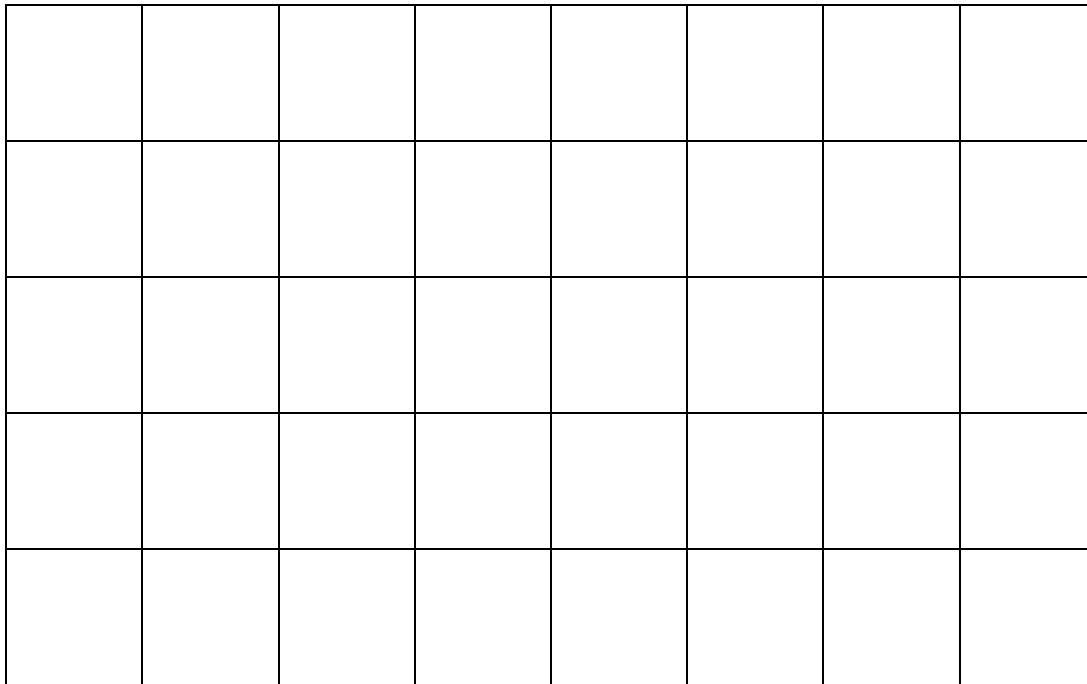
12. Mr and Mrs Brainbox want to buy a carpet for their living room.

The room is a rectangle. It is 4m long and 2.5m wide.

The diagram below shows the living room floor.

a) How much carpet will be required for the living room?

b) Carpet cost £12.75 a square metre. How much will the carpet cost?



**Each square on the plan represents 50cm x 50cm**

c) Put these items on the drawing.

- A table 100cm by 50cm
- A plant 50cm by 50cm – must be in a corner
- A settee must be 100 cm by 150cm
- A cupboard 250cm by 100cm.  
The cupboard drawers need 50cm opening space.

6 marks

# Functional Maths Skills Check

13. A night in a hotel cost £95 in 2021.

In 2022 it will increase by  $\frac{1}{3}$

How much would it cost for a night in same hotel in 2022?

2 marks

14. A stall holder is making muffins.

He uses 150g of flour for 6 muffins.

How much flour will he need for 24 muffins?

1 mark

15. If the bank gave you 5% on your savings of £100

How much would you have in the bank now?

2 marks

16. Share 220 sweets in the ratio of 2 : 3

2 marks



# Functional Maths Skills Check

17.

	BARNSTAPLE				
100		BRISTOL			
55	84		EXETER		
108	194	110		PENZANCE	
67	125	44	77		PLYMOUTH
50	51	34	144	75	TAUNTON

How many miles do you travel going from Bristol to Plymouth, then Plymouth to Barnstaple and then back to Bristol?

2 marks

18. A manager’s special offer says:

**15% off the original cost on all playground equipment**

If a swing and slide set is £256, how much will it be with 15% off?

2 marks

# Functional Maths Skills Check

19. Sarah hires Tim to do some jobs around her farm.

The list below shows the time Tim expects to take to do each job.

It also shows the order in which he will do the work.

Job	Time
Put two sheep pens together	25 minutes per pen
Tea break	10 minutes
Collect 10 bales of straw	$\frac{3}{4}$ hour
Fix gate post in field	$\frac{1}{2}$ hour
Lunch break	40 minutes
Get barn ready for barn dance	$2\frac{1}{2}$ hours

Tim starts the first job at 9am. What time does he finish?

Write a job plan for Tim. Your plan should include the time he starts and finishes each job.

4 marks

For full details of L1 curriculum content refer to DfE (Feb 2018), Subject content functional skills mathematics (pages 13-15): <https://www.gov.uk/government/publications/functional-skills-subject-content-mathematics>  
An answer sheet for this resource is available from [www.skillsworkshop.org](http://www.skillsworkshop.org) (for resource contributors only).