Name: SOLUTIONS

GCSE Maths Grade 1 Questions Non Calculator Pack B

Solutions by
Kenneth Stafford
MATHS TUTOR
ken@kennethstafford.co.uk

This worksheet consists of the first two pages of GCSE maths past papers and represents roughly the equivalent work of grade 1 maths.
This table shows you which papers these questions came from.

Pages	The First Two Pages of
2 - 3	June 2019 Paper 1
4 - 5	November 2018 Paper 1
6 - 7	June 2018 Paper 1
8 - 9	November 2017 Paper 1

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Write 180 minutes in hours.

60 mins = 1 hour

3 ..... hours

(Total for Question 1 is 1 mark)

2 Write 0.73 as a percentage.

73 ..... %

(Total for Question 2 is 1 mark)

3 Work out $10 \times (3 + 5)$

10 x 8 = 80

.....

(Total for Question 3 is 1 mark)

4 Write down a prime number that is between 20 and 30

23 or 29

(Total for Question 4 is 1 mark)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

5 Find the number that is exactly halfway between 7 and 15

$$\frac{7+15}{2} = \frac{22}{2} = 11$$

11

(Total for Question 5 is 1 mark)

6 Harry is planning a holiday for 4 people for 7 days.

Here are the costs for the holiday for **each person**.

Travel	£150
Hotel	£50 for each day
Spending money	£250

Work out the total cost of the holiday for 4 people for 7 days.

Hotel = 50 x 7 = 350

$$\begin{array}{r} 350 \\ 150 \\ +250 \\ \hline 750 \\ \hline 1 \end{array}$$

One person = £750 (x4)

Four people = £3000 (x4)

£ 3000

(Total for Question 6 is 4 marks)

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Write the following numbers in order of size.
Start with the smallest number.

0.4 0.02 0.37 0.152 0.2

0·02 0·152 0·2 0·37 0·4

(Total for Question 1 is 1 mark)

2 Write 0.6 as a percentage.

60 %

(Total for Question 2 is 1 mark)

3 Here is a list of numbers.

3 5 7 12 15 18 20

From the list, write down a factor of 10

5

(Total for Question 3 is 1 mark)

4 Write 7829 to the nearest 1000

8000

(Total for Question 4 is 1 mark)

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

5 (a) Work out $3 \times 5 + 7$

$3 \times 5 + 7$

$15 + 7 = 22$

22

(1)

(b) Work out 2^3

$2 \times 2 \times 2 = 8$

(1)

(c) Write brackets ( ) in this statement to make it correct.

$$7 \times (2 + 3) = 35$$

(1)

(Total for Question 5 is 3 marks)

6 Sue has 2 cats.

Each cat eats $\frac{1}{4}$ of a tin of cat food each day.

Sue buys 8 tins of cat food.

Has Sue bought enough cat food to feed her 2 cats for 14 days?
You must show how you get your answer.

Per day = $2 \times \frac{1}{4} = \frac{1}{2}$ tin

14 days = $\frac{1}{2} \times 14 = 7$ tins

Yes. She only needs 7 tins.

(Total for Question 6 is 3 marks)

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Write 6324 correct to the nearest thousand.

6000

(Total for Question 1 is 1 mark)

2 (a) Write the following numbers in order of size.
Start with the smallest number.

−6 6 −5 0 12

-6, -5, 0, 6, 12

(1)

(b) Write the following numbers in order of size.
Start with the smallest number.

0.078 0.78 0.87 0.708

0·078 0·708 0·78 0·87

(1)

(Total for Question 2 is 2 marks)

3 Write 20% as a fraction.

$20\% = \frac{20}{100} = \frac{2}{10} = \frac{1}{5}$

(Total for Question 3 is 1 mark)

DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

4 Here is a list of four fractions.

$\frac{4}{16}$ $\frac{2}{8}$ $\frac{15}{60}$ $\frac{3}{9}$

One of these fractions is **not** equivalent to $\frac{1}{4}$

Write down this fraction.

$\frac{4}{16} = \frac{1}{4}$ (÷4) $\frac{15}{60} = \frac{1}{4}$ (÷4)

$\frac{2}{8} = \frac{1}{4}$ (÷2) $\frac{3}{9} = \frac{1}{3}$ (÷3)

3/9

(Total for Question 4 is 1 mark)

5 Write down the first even multiple of 7

7, 14, 21, 28

14

(Total for Question 5 is 1 mark)

6 (a) Simplify $3 \times 4t$

$3 \times 4t = 12t$

(1)

(b) Simplify $8a - 3a + 2a$

$8a - 3a = 5a$

$5a + 2a = 7a$

7a

(1)

(Total for Question 6 is 2 marks)

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 (a) Change 365 cm into metres.

1m = 100cm

3.65 ..... m

(1)

(b) Change 2.7 kg into grams.

1kg = 1000g

2.7kg = 2700g

2700 ..... g

(1)

(Total for Question 1 is 2 marks)

---

2 Work out $2 + 7 \times 10$

2 + 7 x 10

2 + 70

72

(Total for Question 2 is 1 mark)

---

3 Solve $\frac{y}{4} = 10.5$

$\frac{y}{4} = 10.5$

$y = 10.5 \times 4$

$y =$ 42

(Total for Question 3 is 1 mark)

---

4 Here are four numbers.

–9 –2 2 9

Write one of these numbers in each box to make a correct calculation.

$\boxed{-9} + \boxed{2} = -7$

(Total for Question 4 is 1 mark)

DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

5 Here are the first four terms of a number sequence.

2 5 11 23

The rule to continue this sequence is

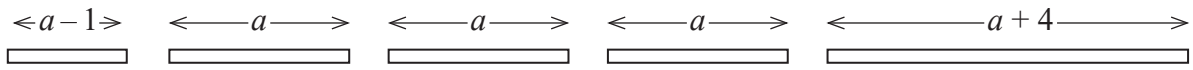
multiply the previous term by 2 and then add 1

Work out the 5th term of this sequence.

$23 \times 2 + 1 = 47$

(Total for Question 5 is 1 mark)

6 Here are five straight rods.



All measurements are in centimetres.

The total length of the five rods is L cm.

Find a formula for L in terms of a.
Write your formula as simply as possible.

$a - 1$
a
a
a
$a + 4$
$5a + 3$

$L = 5a + 3$

(Total for Question 6 is 3 marks)