Weekly check: Year 7 part 1

Year 7 | Key Stage 3 | Part 1: the first third of the year | 20 questions, 50 marks

KS3 Maths weekly check

Scan for the solutions

Name: _____ **Date:** _____ **Score:** _____ **/ 50**

1 Amir has £20

He buys a book costing £7.65 and a magazine costing £4.80

Work out how much money Amir has left.

(2 marks)

Answer _____

2 Write these fractions in order of size, starting with the smallest.

$\frac{2}{3}$ $\frac{3}{4}$ $\frac{7}{12}$ $\frac{5}{6}$

(2 marks)

Answer _____

3 Here are the lowest temperatures, in °C, recorded in five cities one winter night.

−3 −11 −0.5 −8 −1

Write the temperatures in order. Start with the coldest.

(2 marks)

Answer _____

4 Amira has £25 in her bank account.

She spends £40 on a pair of trainers using her bank card.

The next day she pays in £12

What is her bank balance now?

(2 marks)

Answer _____

5 Aisha finished a swimming session at 16:10.

The session lasted 1 hour 35 minutes.

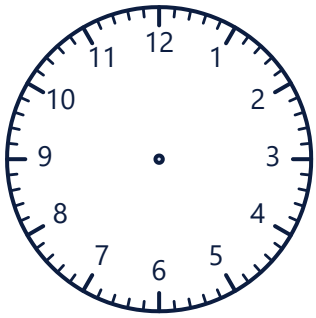
Work out the time the session started.

(2 marks)

Answer _____

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6 On the clock face, draw the hour hand and the minute hand to show the time quarter to four.



(2 marks)

Answer _____

7 Work out

a. $\frac{3}{4} + \frac{1}{6}$

b. $\frac{5}{6} - \frac{2}{9}$

(4 marks)

Answer _____

8 Use the grid method to work out 58 × 37

(2 marks)

Answer _____

9 a. Write the number 4738 correct to 2 significant figures.

b. Write the number 0.05372 correct to 2 significant figures.

(2 marks)

Answer _____

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10 Write 360 as a product of powers of its prime factors. (3 marks)

Answer _____

11 Use short division to work out 1438 ÷ 6

a. Give your answer with a remainder.

b. Give your answer as a mixed number in its simplest form. (2 marks)

Answer _____

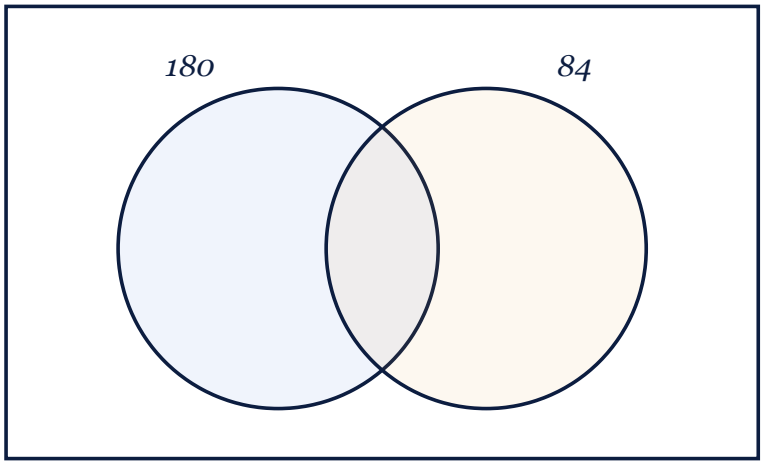
12 $180 = 2^2 \times 3^2 \times 5$

$84 = 2^2 \times 3 \times 7$

a. Complete the Venn diagram to show the prime factors of 180 and 84

b. Find the highest common factor (HCF) of 180 and 84

c. Find the lowest common multiple (LCM) of 180 and 84



(4 marks)

Answer _____

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13 Use your calculator to work out

a. 2.3^3

b. $\sqrt{17.64}$

c. 3^7

(3 marks)

Answer _____

14 Mr Hussain has 42 pencils and 56 rubbers.

He puts them all into identical packs, with nothing left over.

a. What is the greatest number of packs he can make?

b. How many pencils and how many rubbers are in each pack?

(3 marks)

Answer _____

15 Here are five numbers.

126 245 312 430 594

a. Write down the numbers that are multiples of 9

b. Write down the numbers that are multiples of 6

(2 marks)

Answer _____

16 96 pupils go on a school trip. $\frac{5}{8}$ of the pupils are in Year 7.

$\frac{1}{3}$ of the Year 7 pupils bring a packed lunch.

How many Year 7 pupils do not bring a packed lunch?

(3 marks)

Answer _____

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17 Write true or false for each statement.

a. $-6 \geq -6$

b. $-4 \neq 4$

c. $-3 \leq -8$

(3 marks)

Answer _____

18 Here is a list of numbers.

21 34 37 45 51 58 59

a. Write down the even numbers in the list.

b. Write down the prime numbers in the list.

(2 marks)

Answer _____

19 Sophie adds up odd numbers, starting from 1.

1 = 1

1 + 3 = 4

1 + 3 + 5 = 9

1 + 3 + 5 + 7 = 16

a. Write down the next line of the pattern.

b. What type of numbers are the answers?

c. Use the pattern to work out 1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19 without adding the numbers one by one.

(3 marks)

Answer _____

20 Zara works out 39.8 + 61.3 − 19.6

She gets 181.5

Use estimation to show that Zara must be wrong.

(2 marks)

Answer _____

End of questions | Total 50 marks

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