Weekly check: Year 7 part 2

Year 7 | Key Stage 3 | Part 2: the second third of the year | 20 questions, 50 marks

KS3 Maths weekly check

Scan for the solutions

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

1 Make x the subject of the formula

$y = 2x + 9$

(2 marks)

Answer _____

2 Ben's rent is £240 each week.

His rent is increased by 35%.

Work out Ben's new weekly rent.

(3 marks)

Answer _____

3 Write down the ratio 45 cm : 1.5 m in its simplest form.

(2 marks)

Answer _____

4 The nth term of a sequence is $20 - 4n$

a. Write down the first four terms of the sequence.

b. Work out the 10th term of the sequence.

(2 marks)

Answer _____

5 Oliver expands $4(3m - 2)$ and writes

$4(3m - 2) = 12m - 2$

Explain the mistake Oliver has made and write the correct answer.

(2 marks)

Answer _____

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6 A bottle contains 850 ml of juice.

34% of the juice is orange juice.

Work out how many millilitres of orange juice are in the bottle.

(2 marks)

Answer _____

7 Ella and Ravi share some sweets in the ratio 3 : 5

Ravi gets 12 more sweets than Ella.

How many sweets do they share altogether?

(3 marks)

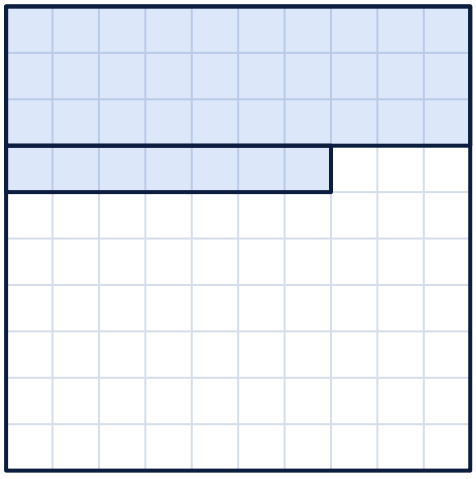
Answer _____

8 The grid is made of 100 equal squares. Some of the squares are shaded.

a. What percentage of the grid is shaded?

b. What percentage of the grid is not shaded?

c. Write the shaded part of the grid as a decimal.



(3 marks)

Answer _____

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9 The nth term of a sequence is $5n - 3$

a. Work out the 12th term of the sequence.

b. Is 122 a term of the sequence? You must show how you get your answer.

(3 marks)

Answer _____

10 Write these numbers in order of size, starting with the smallest.

$\frac{2}{5}$ 0.44 39% $\frac{1}{4}$

(2 marks)

Answer _____

11 Write these numbers in order of size, starting with the smallest.

0.3 $\frac{7}{25}$ 31% $\frac{3}{8}$ 0.295

(3 marks)

Answer _____

12 Make x the subject of each equation.

a. $x + 5 = y$

b. $x - 3 = p$

c. $4x = t$

(3 marks)

Answer _____

13 The nth term of a sequence is $6n - 1$

Write down the first three terms of the sequence.

(2 marks)

Answer _____

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14 Expand and simplify $2(x + 5) + 3(x + 1)$

(2 marks)

Answer _____

15 Amy is x years old.

Ben is 5 years older than Amy.

Chloe is twice as old as Amy.

a. Write down an expression, in terms of x, for Ben's age.

b. Write down an expression, in terms of x, for Chloe's age.

(2 marks)

Answer _____

16 a. Simplify $8x + 5 - 3x + 2$

b. Simplify $2g \times 5g$

(3 marks)

Answer _____

17 A plumber charges a fixed call-out fee of £40 plus £28 for each hour of work.

The plumber works for h hours on a job.

The total charge for the job is £C.

Write a formula for C in terms of h.

(3 marks)

Answer _____

18 5 packets of football stickers cost £3.50

Work out the cost of 8 packets of the same stickers.

(2 marks)

Answer _____

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19 Three friends compare their scores in a science test.

- Leah scored 17 out of 20
- Omar scored 82%
- Grace got 0.84 of the marks

Put the friends in order, starting with the highest score.
You must show your working.

(3 marks)

Answer _____

20 Asha thinks of a number, n.
She multiplies her number by 4 and then subtracts 7. Her answer is 25.

a. Write an equation in n.

b. Solve your equation to find Asha's number.

(3 marks)

Answer _____

End of questions | Total 50 marks

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