Weekly check: Year 7 whole year

Year 7 | Key Stage 3 | The whole year | 20 questions, 50 marks

KS3 Maths weekly check

Scan for the solutions

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

1 Write down whether each of these is an **expression**, an **equation** or a **formula**.

a. $3x + 2$

b. $2y - 5 = 11$

c. $A = lw$

d. $4a + b^2$

(2 marks)

Answer _____

2 At the school tuck shop, Callum buys 6 cereal bars at 74p each and 3 drinks at £1.15 each.

He pays with a £10 note.

How much change should he get?

(3 marks)

Answer _____

3 Work out 15% of £60

(2 marks)

Answer _____

4 Write <, > or = in each box to make each statement true.

a. $-7 \square -3$

b. $-2.5 \square -2.05$

c. $4 - 9 \square -5$

(3 marks)

Answer _____

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5 Here are four numbers.

6 11 9 14

Work out the mean of these numbers.

(2 marks)

Answer _____

6 In a gym class, the ratio of the number of men to the number of women is 4 : 5.

There are 20 men in the class.

Work out the total number of people in the class.

(2 marks)

Answer _____

7 Work out $3^2 + 4 \times (7 - 2)$

(2 marks)

Answer _____

8 ABC is a straight line. The point D lies above the line.

Triangle BCD is isosceles with $BD = CD$.

Angle $DBA = 134°$.

Work out the size of angle BDC. Give a reason for each stage of your working.

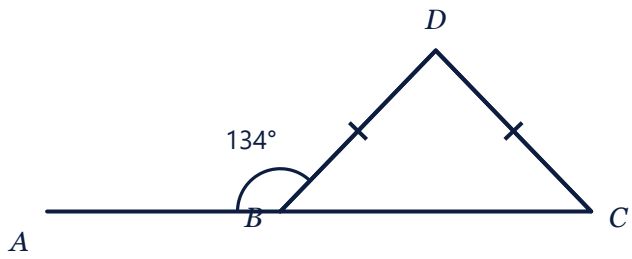


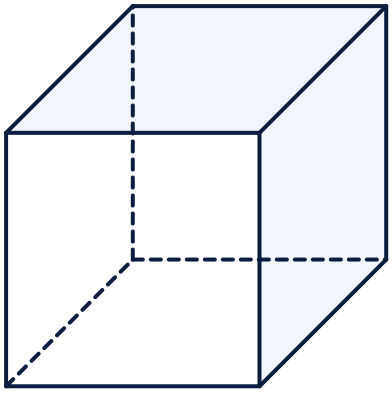
Diagram NOT accurately drawn

(4 marks)

Answer _____

9 A dice is a cube with edges of length 2.5 cm.

Work out the volume of the dice.



2.5 cm

(2 marks)

Answer _____

10 A triangle has base 12 cm and perpendicular height 5 cm.

Work out the area of the triangle.

(2 marks)

Answer _____

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11 The time series graph shows the number of ice creams a kiosk sold each month from January to June.

a. Write down the number of ice creams sold in April.

b. Between which two consecutive months was the biggest increase in sales?



(2 marks)

Answer _____

12 List all the prime numbers between 20 and 35.

(2 marks)

Answer _____

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13 The diagram shows the net of a 3D solid. It is made from three rectangles and two equilateral triangles.

a. Write down the name of the solid.

b. Write down the number of edges the solid has.

c. Ravi says, "The solid has 6 faces." Is Ravi correct? Give a reason.

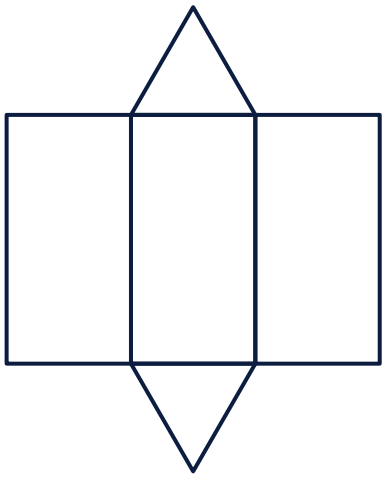


Diagram NOT accurately drawn

(3 marks)

Answer _____

14 a. Solve $c - 8 = 11$

b. Solve $6d = 54$

c. Solve $e \div 4 = 7$

(3 marks)

Answer _____

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15 Write down the type of correlation you would expect to see in a scatter graph of each of the following.

a. The daily temperature and the number of ice creams sold at a kiosk.

b. The age of a car and its value.

(2 marks)

Answer _____

16 Work out $4\frac{2}{5} - 1\frac{3}{4}$

Give your answer as a mixed number in its simplest form.

(3 marks)

Answer _____

17 Simplify $6x + 3y - 2x + 5y$

(2 marks)

Answer _____

18 Use a written method to work out 300.4 − 86.75

(2 marks)

Answer _____

19 Fill in the missing numbers in each sequence.

a. 4, 9, ___, 19, ___

b. 50, ___, 36, 29, ___

c. 3, 6, 12, ___, 48

(3 marks)

Answer _____

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20 Complete the table. Write each fraction in its simplest form.

	Fraction	Decimal	Percentage
a	$\frac{1}{4}$		
b		0.6	
c			12%
d	$\frac{1}{20}$		

(4 marks)

Answer _____

End of questions | Total 50 marks

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