

Year 7 Maths Revision: Autumn Term

Your assessment could include any topics that you have been taught since the start of year 7, until the end of Autumn Term.

In addition to revision material given to you by your teacher, you should be using the mathswatch website to revise topics that you know you struggle with, especially from earlier in year 7.

Ask your teacher for your login details, and write them here:

vle.mathswatch.com

User:

Password:

Choose topics below that you know you need to revise, and log onto mathswatch to watch the video clips and try the questions.

YEAR 7 TOPICS	MathsWatch Clip numbers
Integer place value	N1a
Mental addition and subtraction	N3a and N4a
Written addition and subtraction of integers	N3b and N4b
Addition and subtraction of decimals	N13b and N14b
Multiplication and division of integers	N15a and N28a; N16 and N29a
Area	G9, G20a, G20b, G20c and G20d
Multiplication and division of decimals	N15b, N28b and N29b
Mean	S7
Time	N7b

The rest of this booklet contains questions in the style that you will find in the assessment. Plan to do a page a day – or follow your teacher's instructions. If you find any questions difficult, look up the topic on mathswatch and ask your teacher for help.

If you are in set 1, ask your teacher for extension material as your assessment may also include harder questions.

1.

$$\begin{array}{r} 428 \\ + 134 \\ \hline \\ \hline \end{array}$$

2 marks

$$\begin{array}{r} 415 \\ - 142 \\ \hline \\ \hline \end{array}$$

2 marks

2. Write these numbers in order from smallest to largest

16, 123, 73, 140, 77

1 marks

3. Write down the value of the 3 in the number 42 398

1 marks

4.

work out

(a) 7×10

.....

(b) 3.6×100

(c) 0.054×100

.....

(d) $6000 \div 100$

.....

(e) $0.84 \div 10$

.....

.....

(5 marks)

5. (a) Round 342 to the nearest ten

(1mark)

(b) Round 12 831 to the nearest thousand

(1mark)

6.

Fiona has four cards.
Each card has a number written on it.



Fiona puts all four cards on the table to make a number.

- (a) (i) Write the numbers on the cards to show the smallest number Fiona can make with the four cards.

Four empty square boxes are arranged in a row, intended for the student to write the digits of the smallest number possible.

1 mark

- (ii) Write the numbers on the cards to show the largest number Fiona can make with the four cards.

Four empty square boxes are arranged in a row, intended for the student to write the digits of the largest number possible.

Fiona uses the cards to make a true statement.

1 mark

- (b) Write the number on the cards to make this true.
Use each of Fiona's cards **once**.

$$\square + \square = \square \square$$

1 mark

A fifth card is needed to show the result of the multiplication 4915×10 . She needs a fifth card

- (c) Write the number that should be on the fifth card.

A single empty square box is provided for the student to write the number that should be on the fifth card.

1 mark

7.

Tony has a hot-dog stall.

He uses sauce from a bottle which holds 224 ml.

He puts about 7 ml of sauce on each hot-dog.

How many hot-dogs can he put sauce on from one bottle?

(2marks)

8.

A packet of biscuits costs 56p.

A bottle of cola costs £1.14

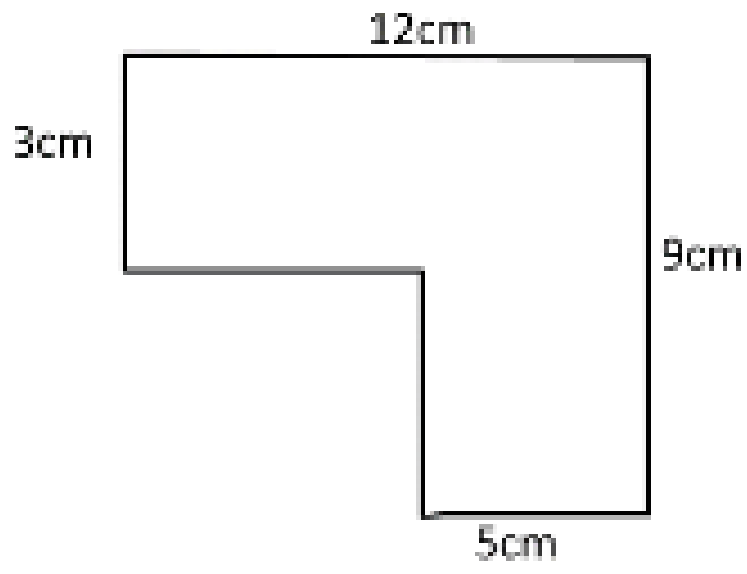
Emma buys 4 packets of biscuits and one bottle of cola.

She pays with a £10 note.

Work out how much change she should get.

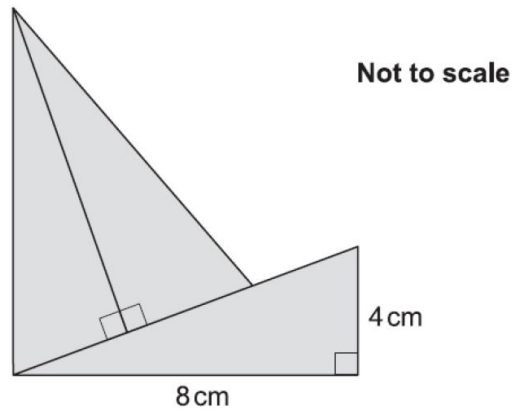
(3 marks)

9. Calculate the perimeter of the shape below giving units with your answer



(4 marks)

10. The three triangles in the diagram below are exactly the same. Calculate the total area of the shape. Give units with your answer



(4 marks)

1.

(a) Write the number **7428** in words.

.....

(1)

The mountain K3 is eight thousand and fifty one metres high.

(b) Write the number **eight thousand and fifty one** in figures.

.....

(1)

The table shows the heights of six mountains.

Mountain	Height (metres)
Diran	7266
Lhotse	8516
K12	7428
Cho Oyu	8188
Jannu	7711
Makalu	8485

(c) Write down the name of the highest of these mountains.

.....

(1)

(d) Write the number **8188** to the nearest hundred.

.....

(1)

2.

$$347 + 62 =$$



(2)

$$154 - 81 =$$



(2)

$$74 \times 5 =$$



(2)

$$378 \div 3 =$$



(2)

3. Write the correct symbol =, < or > in each circle

$$9 \times 3 \quad \bigcirc \quad 8 \times 4$$


$$9 - 3 \quad \bigcirc \quad 8 - 4$$

$$9 + 3 \quad \bigcirc \quad 8 + 4$$

(3)

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

3.01 13.0 0.31 1.30 3.1



Smallest

2 marks

5. Complete the table by rounding each number to the accuracy given at the top of the column.

Number	To the nearest integer	To 1 decimal place	To 2 decimal places
47.439			
3.018			
0.952			

4 marks

6.

(a) A **three-digit** number is a **multiple of 4**

What could the number be?

Give an example.

 _____

1 mark

Now give a **different** example.

 _____

1 mark

(b) A **two-digit** number is a **factor of 100**

What could the number be?

Give an example.

 _____

1 mark

Now give a **different** example.

 _____

1 mark

7.

(a) Join all the pairs of numbers that **add** together to equal 1

The first one is done for you.

0.1	0.99
0.11	0.9
0.01	0.999
0.91	0.89
0.001	0.09

2 marks

(b) Now join all the pairs of numbers that **multiply** to equal 1

The first one is done for you.

1	2
0.5	4
0.25	1
0.1	20
0.05	10

2 marks

8. Jack weighs himself.



44.8kg

Then Jack weighs himself together with his dog.



and

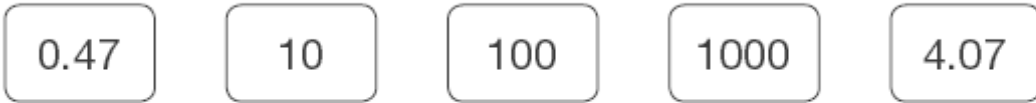


60.4kg

How much does the dog weigh?

3 mark

9. Here are five number cards.



Use **four** of the cards to complete these calculations. You can use each card only once

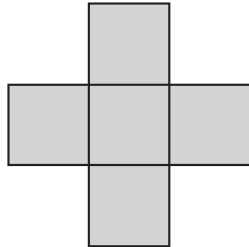
47 \div =

\times = 40.7

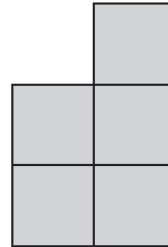
2 mark

10.

Shape A and shape B are each made from five identical squares.



A



B

Not drawn accurately

The **perimeter** of shape A is **72cm**.

Work out the **perimeter** of shape B.

3 mark

11.

Now Lisa multiplies two different numbers.

Complete the grid, then give the answer below.



×	_____	40	3
30	_____	_____	_____
_____	600	_____	18

4 mark

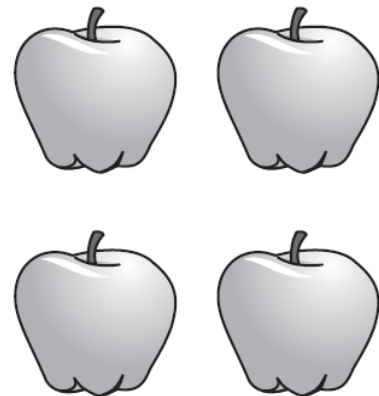
12.

Jack buys **four** apples.

He pays with a **£2** coin.

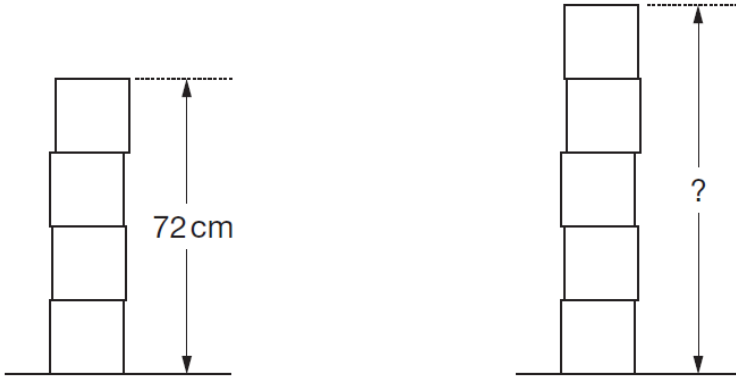
He gets **£1.20** change.

How much does **one** apple cost?



3 mark

- 13.** Lisa has some boxes that are all cubes of the same size.
She uses four of the boxes to make a pile with a height of **72 cm**.
She puts one more box on top of the pile.



Work out the height of the pile of **five** boxes.

14. Here are some numbers.

9.6

12.6

15.4

7.6

12.4

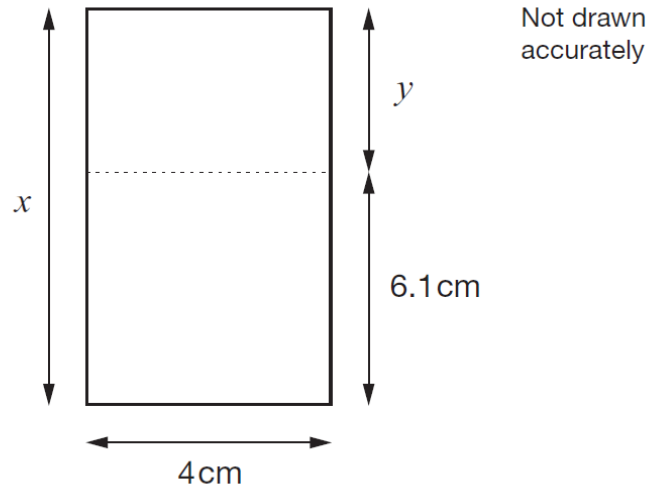
17.4

Write the numbers in pairs so that the **sum** of the numbers in each pair is the same.

[2 marks]

15.

Look at the rectangle.



The **total area** of the rectangle is 40 cm^2

Work out lengths x and y



3 mark

16.

Eva sees these prices for burgers and bread rolls.

Burgers
Pack of 8
£3.65

Bread rolls
Pack of 12
£1.95

Eva has £15

She wants to buy 24 burgers and 24 bread rolls.

Does she have enough money?

You **must** show your working.

[4 marks]

17. Ranjit has six coins in his pocket.

If he picks **five** of the coins

the most he could pick is £4.60

the least he could pick is £2.70

How much money does he have altogether?

[4 marks]