Maths Lessons - Week 6

This pack includes your 3 maths lessons for the week. The pack includes:

- ✓ 'Quick Ten' maths starters to warm your brains up
- \checkmark 3 maths lessons
- \checkmark the links to the online lessons
- ✓ worksheets and answers
- \checkmark an extension task.

Read through the document carefully as it will give you instructions on what to do. Your work this week is all about ratio and proportion. If you haven't done WEEK 5s maths learning yet, it would be a good idea to watch the online lessons as a recap as it will help you with this weeks maths learning. Good luck Year 6!

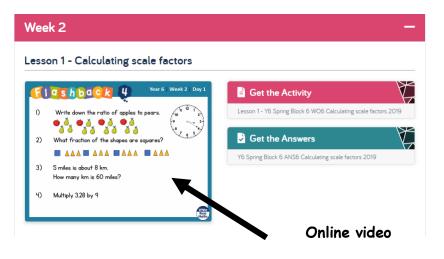
Lesson 1 – Teach and Practise

Starter - Quick 10

Answer these 10 questions, which cover areas of maths you have already been taught, as quickly as possible. Time yourself and see if you can beat your score next time.

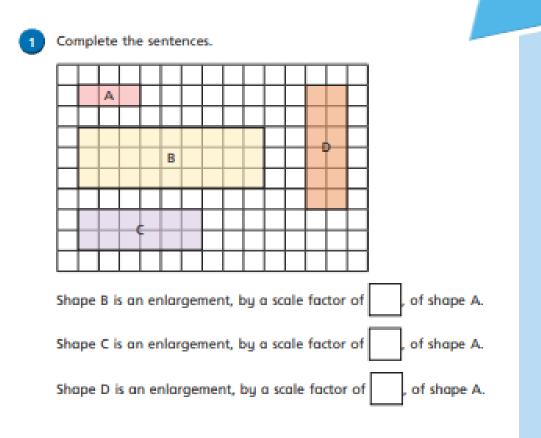
Question	Answer	Question	Answer
EXAMPLE: 2 X 4 =	8		
1. 499 - 100 =		6. 40 × 30 =	
2. 6 squared=		7. 3 /4 + 7/12 =	
3. 7 × 8 =		8. 4 + 9 x 6 =	
4. 4/5 + 1/5=		9. 6.009 - 0.021 =	
5. 25% of 85 =		10. 3.01 ÷ 100 =	

Input - Open this link <u>https://whiterosemaths.com/homelearning/year-6/</u>and go to WEEK 2. Watch the first lesson called calculating scale factors.



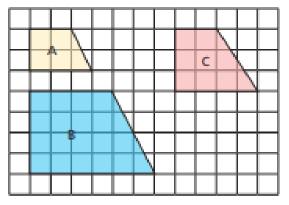
Activity: Complete the questions below about calculating scale factors. You can watch the video as many times as you want to help you answer the questions.

Rose Moths



2

Shape B is an enlargement of shape A. Shape C is not an enlargement of shape A.

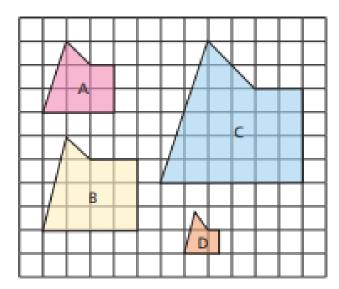


Talk to a partner about why this is the case.





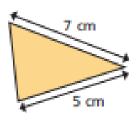
Tick all the shapes that are an enlargement of shape A.

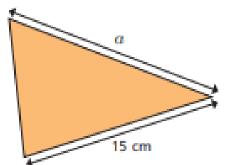


How do you know which shapes are enlargements?

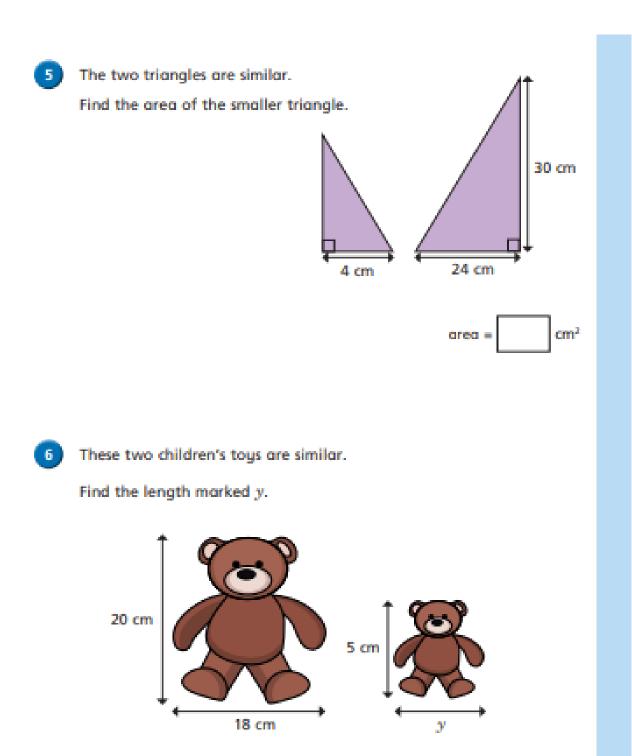
4 The two triangles are similar.

Find the length of a.



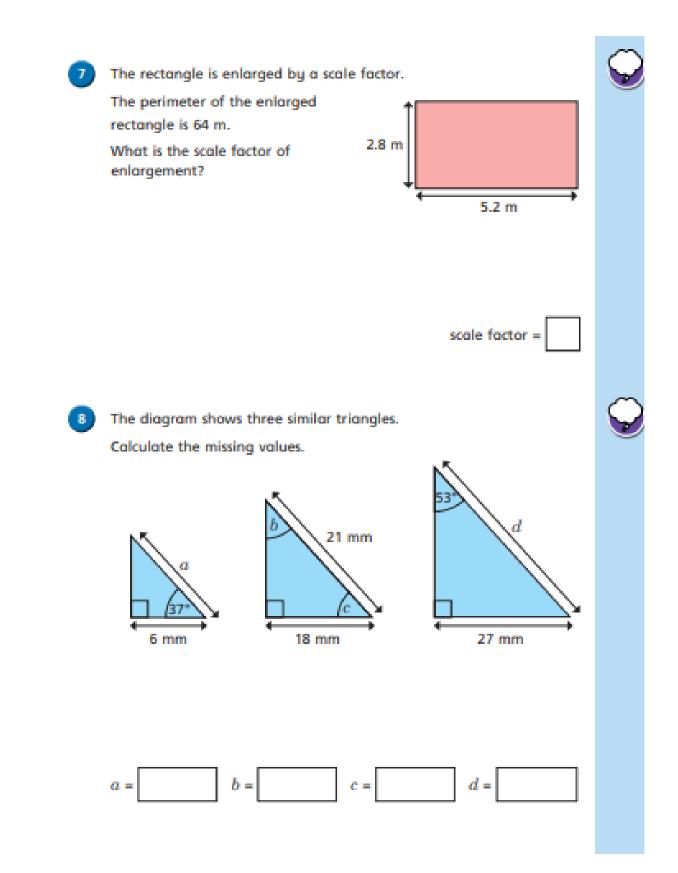






y =

cm



If you have struggled with any of the questions, don't worry, go back to the video and recap what has been said. Once you have completed these, open the answers document to check your work.

Lesson 2 – Teach and Practise

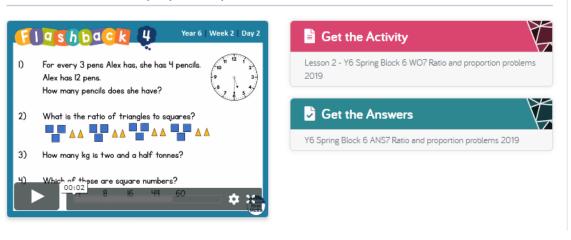
Starter - Quick 10

Answer these 10 questions, which cover areas of maths you have already been taught, as quickly as possible. Time yourself and see if you can beat your time from lesson 1.

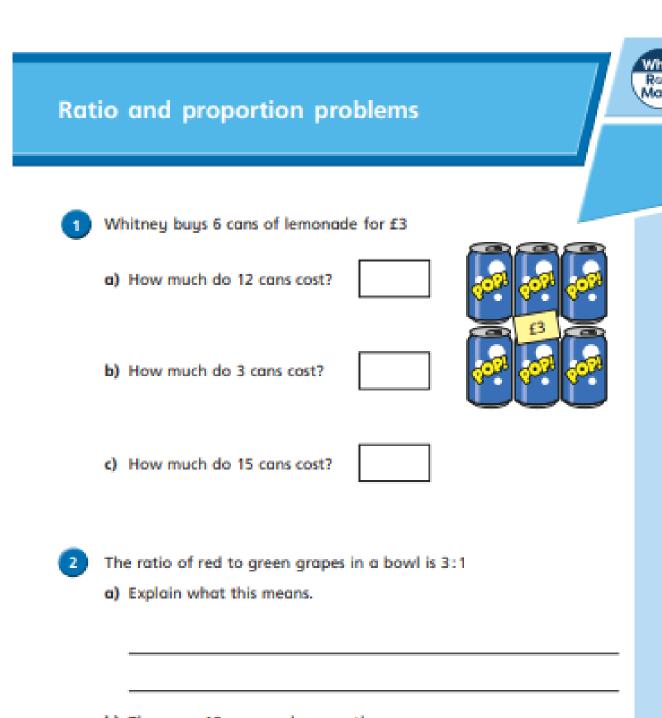
Question	Answer	Question	Answer
EXAMPLE: 2 X 4 =	8		
1. 1087 - 100 =		6. 60 x 30 =	
2. 7 squared=		7. 1/3 + 7/15 =	
3. 6 x 9 =		8. 21 - (3 × 4) =	
4. 4/6 - 1/6=		9. 9.102 - 0.927 =	
5. 25% of 126 =		10. 2.03 ÷ 100 =	

Input - Open this link <u>https://whiterosemaths.com/homelearning/year-6/</u>and go to WEEK 2. Watch the second lesson called Ratio and Proportion.

Lesson 2 - Ratio and proportion problems



Activity: Once you have watched the video and completed the questions in the video, complete the questions below. Remember, you can watch the video as many times as you like.

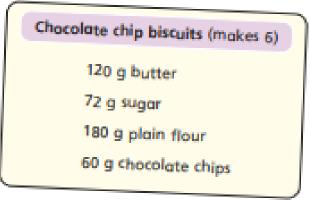


b) There are 12 more red grapes than green grapes. What is the total number of grapes in the bowl?

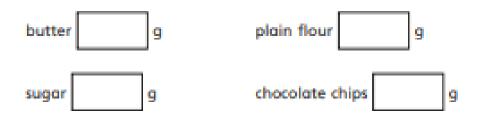


3 Amir is making some chocolate chip biscuits.

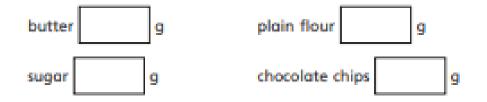
He has this list of ingredients to make 6 biscuits.



a) How much of each ingredient does Amir need to make 2 biscuits?



b) How much of each ingredient does Amir need to make 10 biscuits?



c) Amir has 240 g of chocolate chips.

What is the maximum number of biscuits he can make?

Dexter has some 20p and 50p coins in a jar.
For every three 20p coins he has one 50p coin.
There are 12 coins in the jar in total.
How much money is in the jar?

5 A drink is made using 3 parts orange juice to 2 parts lemonade. Esther makes 1.2 litres of this drink. How much orange juice does she need?



Shop A 500 g of cornflakes £2.10 Shop B 750 g of cornflakes £3.30

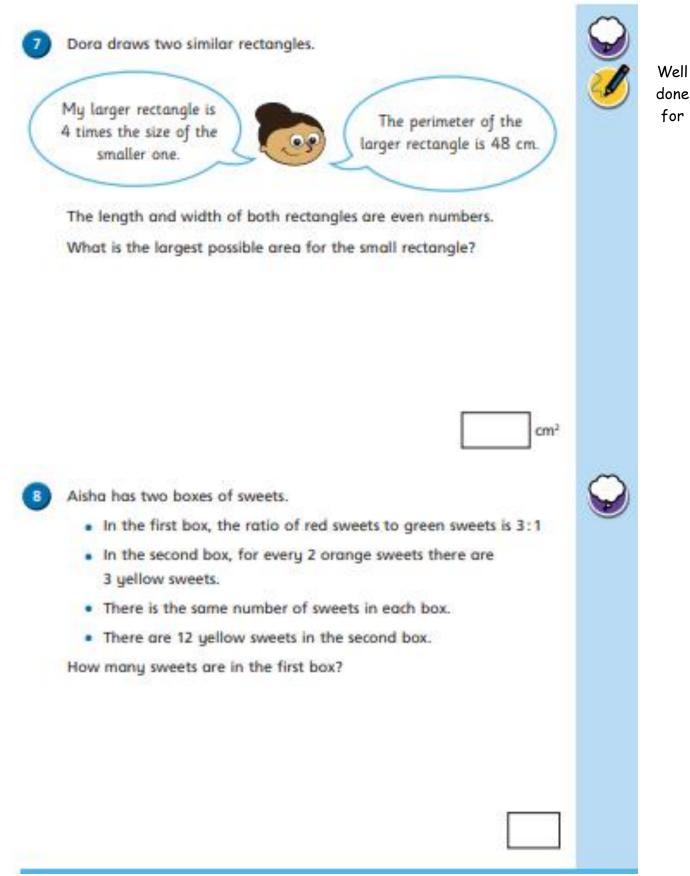
Which shop is better value for money?

Explain why.

Shop _____

9

ml



completing lesson 2 of your maths. 😊

Starter - Quick 10

Answer these 10 questions, which cover areas of maths you have already been taught, as quickly as possible. Time yourself and see if you can beat your time from lesson 1.

Question	Answer	Question	Answer
EXAMPLE: 2 X 4 =	8		
1. 12,087 - 100 =		6. 80 × 50 =	
2. 1 squared=		7. 3/7 + 7/35 =	
3. 4 × 7 =		8. 20 + 12 ÷ 4 =	
4. 11/15 - 9/15=		9. 12.35 - 0.637 =	
5. 25% of 846 =		10. 1.03 × 100 =	

Activity: There are 6 SATs questions for you to answer based on your learning for this week. Have a go at them and then check your answers using the mark scheme. Good luck!

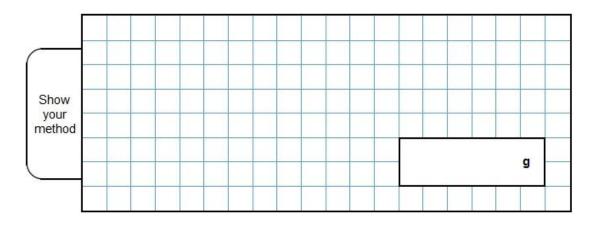
Q1.

Here are the ingredients for chocolate ice cream.

3			Ø
	cream	400 ml	
	milk	500 ml	
	egg yolks	4	
	chocolate	120 g	
	sugar	100 g	22
			\bigcirc

Stefan has only 300 ml of cream to make chocolate ice cream.

How much chocolate should he use?



2 marks

Q2.

This table shows the areas of the United Kingdom and Jamaica.

Country	Area (square kilometres)
United Kingdom	240,000
Jamaica	10,000

The area of the United Kingdom is larger than the area of Jamaica.

How many times larger is the United Kingdom?

times larger

1 mark

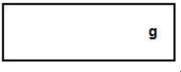
Q3.

Here is a recipe for pasta sauce.

Pa	sta sauce
300g	tomatoes
120g	onions
75g	mushrooms

Josh makes the pasta sauce using **900 g** of **tomatoes**.

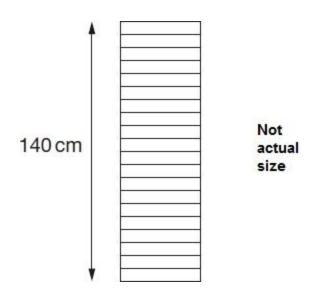
What weight of **onions** should he use?



1 mark

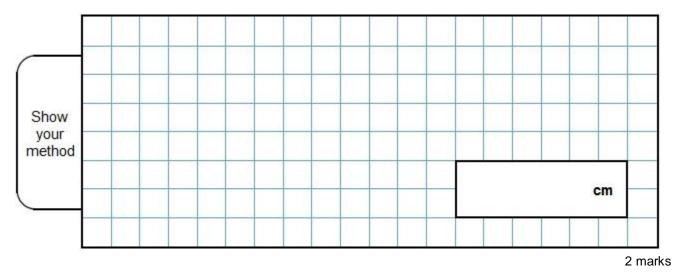
Q4.

A stack of 20 identical boxes is 140 cm tall.



Stefan takes **three** boxes off the top.

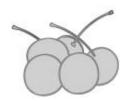
How tall is the stack now?



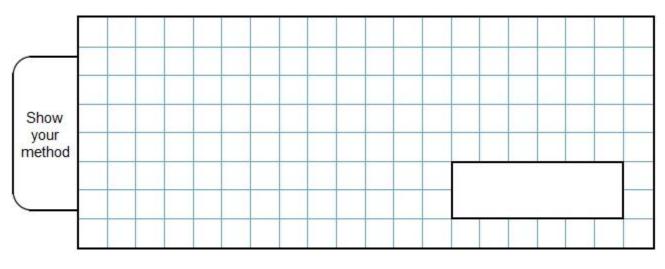
Seb had some cherries.

Every day he ate 10 cherries and gave 5 away.

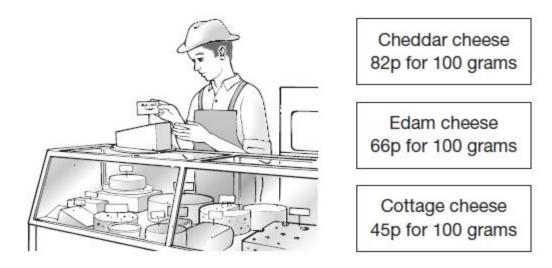
After he gave the last 5 cherries away, he had eaten 40 cherries altogether.



How many cherries did Seb have at the start?

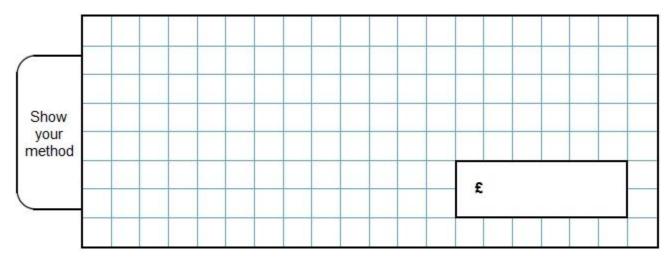


These are the prices of cheese in a shop.



Mina buys **200 g** of Cheddar cheese and **150 g** of Edam cheese.

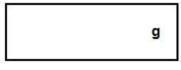
How much does she pay altogether?



2 marks

Seb buys some cottage cheese for £1.35.

How many grams of cottage cheese does he get?



1 mark

Q6.

Extension Task:

Once you have completed the 3 lessons, have a go at the Target Maths ratio and proportion sheets. You can choose either A, B or C based on your confidence level. Sheet A is for people who feel less confident and sheet C is for people who feel extremely confident! I would also start with Sheet B and see how I feel - if it's too tricky move to sheet A or if you found it a comfortable challenge and got the majority of answers correct, move onto sheet C for a challenge!

Good luck!

