Year 5 Maths Home Learning | Summer Term

W.C. 4th May 2020

https://www.bbc.co.uk/bitesize/tags/zhgppg8/year-5-lessons/1

Maths ANSWERS

Monday

Area model/Grid method

Mild

45 x 42 = 1890

52 x 24 = 1246

34 x 43 = 1462

Eva's calculation does not include 20 × 7 and 50 × 3
Children can show this with concrete or pictorial representations.

Medium

12 x 15 = 180

Purple = 10 x 10 = 100

Pink = 5 x 10 = 50

Blue = 10 x 2 = 20

Yellow = 5 x 2 = 10

Therefore it is again 15 x 12 = 180

Amir needs 8 more hundreds, 40 × 40 = 1,600 and he only has 800

His calculation is 42 × 46 = 1,932

Spicy

14 x 32 = 448

14 x 23 = 322

25 x 16 = 400

33 x 15 = 495

22 x 51 = 1122

X 60 9

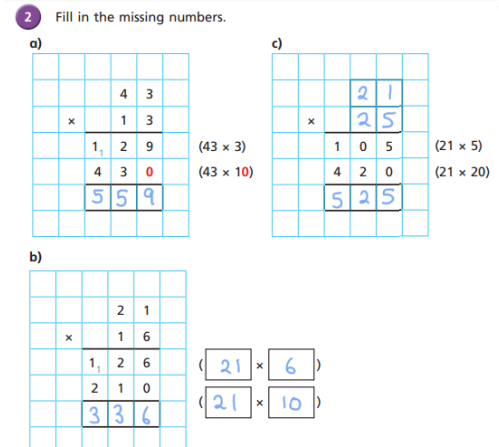
50

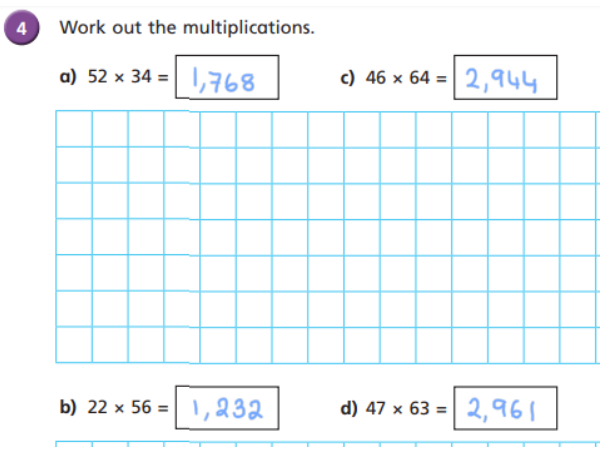
5

Tuesday

Multiplying by a 2 digit number

Mild





5 A machine prints 92 labels every minute.

How many labels will it print in three-quarters of an hour?

4,140

Medium

2 Complete the multiplications.

a)

			2	3	1	
	×			1	3	
			6	9	3	
		2	3	1	0	
		3	0	0	3	
		1	1			

(231 × 3)

(231 × 10)

b)

				5	1	2	
	×				2	4	
			2_2	0	4	8	
		1_1	0	2	4	0	
		1	2	2	8	8	

(512 × 4)

(512 × 20)

4 Complete the multiplications.

a) 142 × 31 = 4,402

c) 214 × 53 = 11,342

b) 337 × 46 = 15,502

d) 24 × 183 = 4,392

5 Some children are asked to work out 308 × 19

a) Which is the best estimate to use to check their answers?

Circle your choice and work out the answer to your estimate.

300 × 10 300 × 20 **310 × 20** 300 × 19

estimate answer = 6,200

b) Explain the reasons for your choice.

c) Here are answers given by three children.

Nijah 28,028 Filip 5,852 Whitney 2,080

From your estimate, who do you think is correct? Filip

d) Work out the correct answer.

5,852

Spicy

2 Tommy is calculating 1,234 × 26

a) Complete his working out.

			1	2	3	4	
	×				2	6	
			7_1	4_2	0_2	4	
		2	4	6	8	0	
		3	2	0	8	4	
		1	1				

(1,234 × 6)

(1,234 × 20)

b) Fill in the grid to check Tommy's working is accurate.
You may use place value counters to help.

×	1,000	200	30	4
20	20,000	4,000	600	80
6	6,000	1,200	180	24

3 Rosie is calculating 2,541 × 42

Here is Rosie's working.

	2	5	4	1	
×			4	2	
	4_1	0	8	2	(2,541 × 2)
	8_2	0_1	6	4	(2,541 × 40)
1_1	2	1_1	4	6	

a) Rosie has made two mistakes. What are they?

She hasn't correctly exchanged

She has multiplied by 4 not 40

b) What is the correct answer?

106,722

8 Amir scores 4,680 points in a computer game for 12 games in a row.

Whitney scores 2,512 points every game for 24 games.

Who scores more points? Whitney

Amir: 56,160

Whitney: 60,288

How many more? 4,128

Wednesday

Short division with remainders

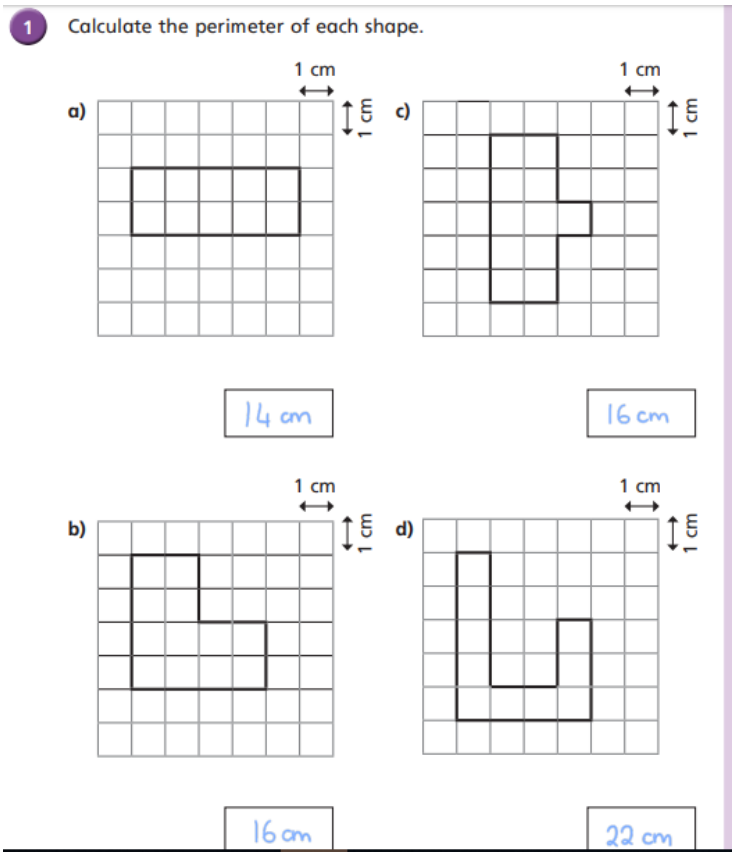
Mild, Medium and Spicy – Log on to Timetable Rockstars and compete in the Battles we have set up!

Be sure to check the answers for this task on the BBC Bitesize website.

Thursday

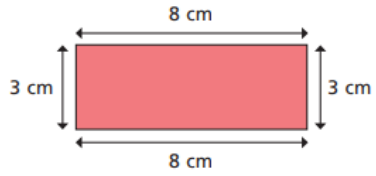
Calculating perimeter

Mild



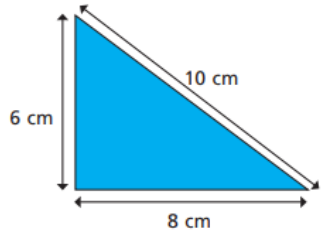
2 Calculate the perimeter of these shapes.

a)



22cm

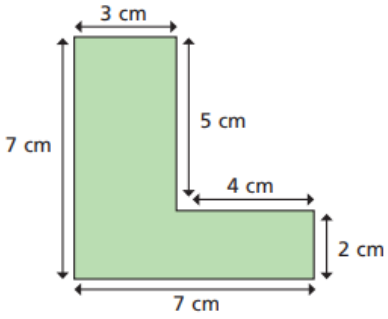
b)



24cm

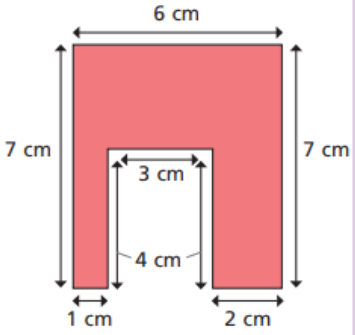
3 Calculate the perimeter of these shapes.

a)



28cm

b)

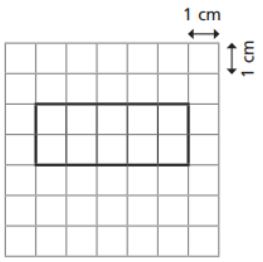


34cm

Medium

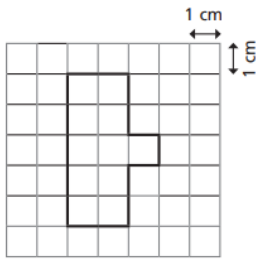
1 Calculate the perimeter of each shape.

a)



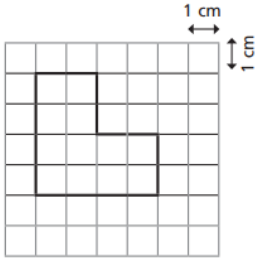
14 cm

c)



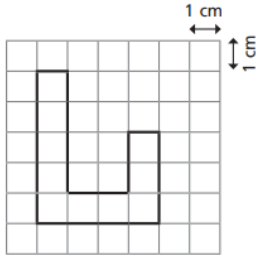
16 cm

b)



16 cm

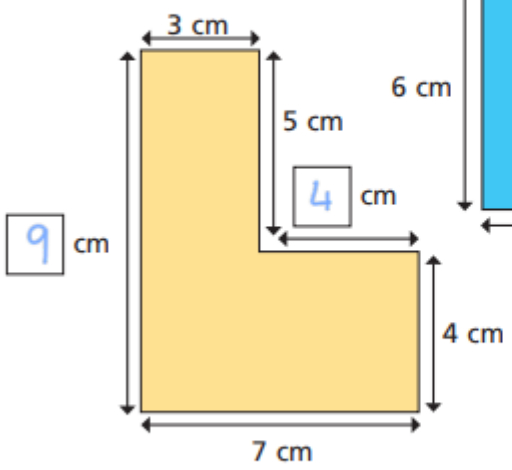
d)



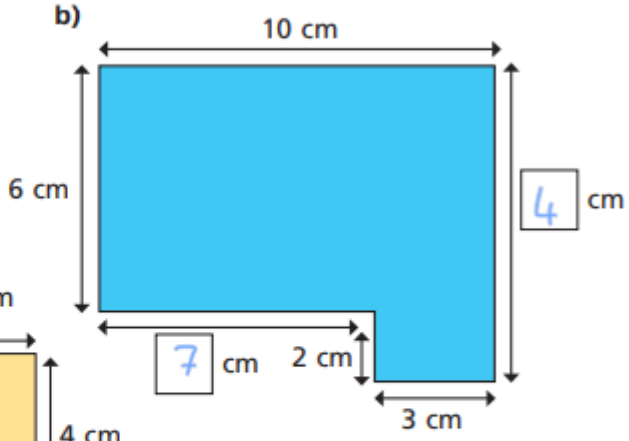
22 cm

4 Work out the missing lengths on these shapes.

a)



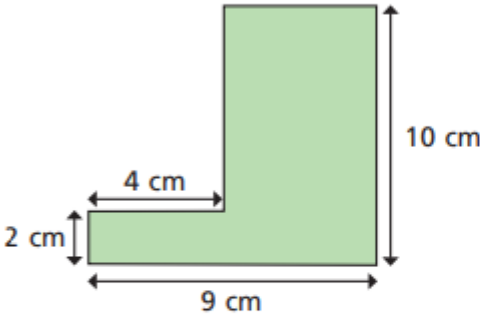
b)



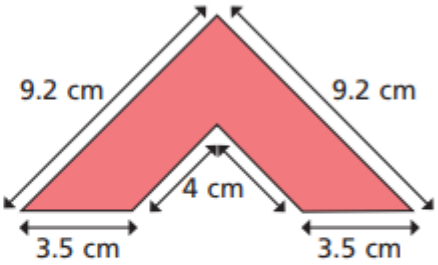
Discuss with a partner how you worked them out.

5 Calculate the perimeter of these shapes.

a)



b)



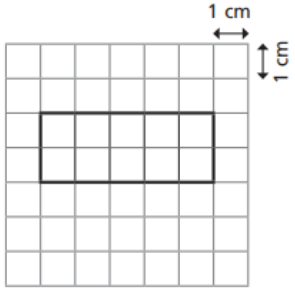
38cm

33·4cm

Spicy

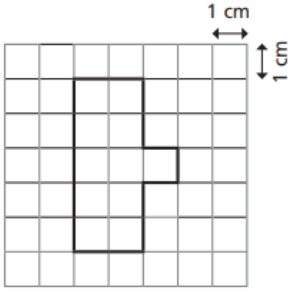
1 Calculate the perimeter of each shape.

a)



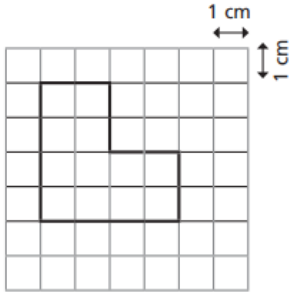
14 cm

c)



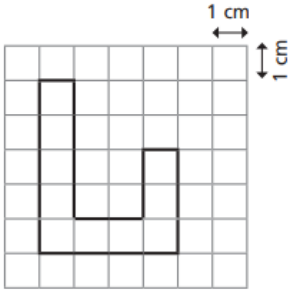
16 cm

b)



16 cm

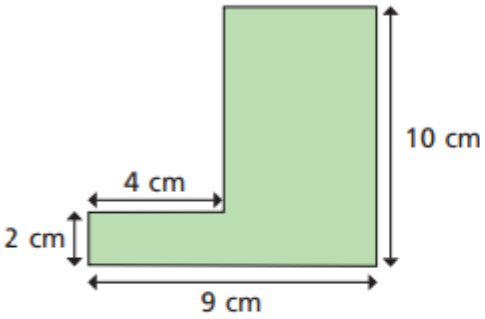
d)



22 cm

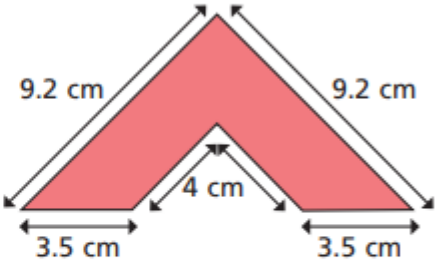
5 Calculate the perimeter of these shapes.

a)



38cm

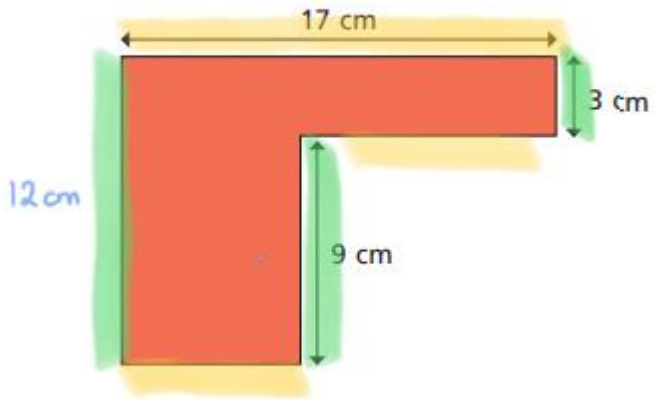
b)



33·4cm

6 Mo thinks that there is not enough information to calculate the perimeter of the shape.

Is he correct? How do you know?



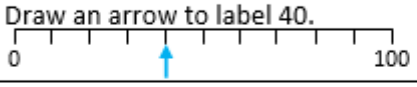
No. The perimeter is 58 cm.

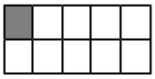
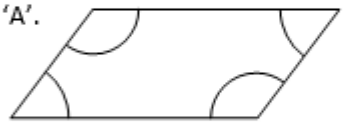
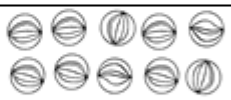
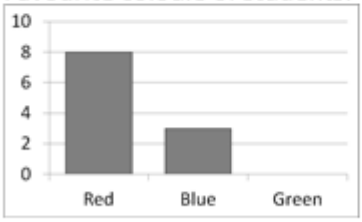
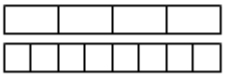
Friday

Today you may wish to challenge yourself with the online challenges or the Key Skills tasks! But make sure to have plenty of fun with maths today!

Key Skills and Rockstars

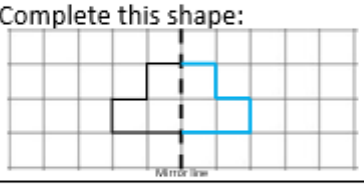
Mild

A: Place Value, Add and Subtract	
1. What is the missing number? 0 8 ☐ 24 32	*3:1* **16**
2. What is the **2** worth in this number? 257	*3:2* **200** **(hundreds)**
3. Put these in order, smallest first. 293 329 932 392	*3:3* **293, 329, 392, 932**
4. Draw an arrow to label 40. 	*3:4* **Arrow**
5. Circle all the **multiples** of 8. 6 8 14 16 20	*3:5* **8, 16**
6. 462 + 100 =	*3:6* **562**
7. 256 + 128 =	*3:7* **384**
8. Write the sum to check 82 - 37 = 45. Check: 45 + ☐ = ☐	*3:8* **37, 82**
9. To a no. I add 27 then subtract 19. I now have 13. What did I start with?	*3:9* **5**
10. What is the missing number? 149 + ☐ = 211	*3:9* **62**

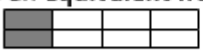
B: Multiply, Divide and Fractions		C: Measure, Geometry and Statistics	
11. $36 \div 3 =$	*3:10*	23. About how long does it take for a full kettle to boil? **a.** 50 seconds **b.** 5 minutes **c.** 50 minutes 	*3:23*
12. $8 \times 3 =$	*3:10*		
13. Use $5 \times 6 = 30$ to solve: $300 \div 6 =$	*3:11*	22. Which of these is a correct description of a cuboid? **a.** I have 6 faces and 6 vertices. **b.** I have 6 edges and 8 vertices. **c.** I have 6 faces and 12 edges.	*3:25*
14. Eggs come in boxes of 6. I need 20 eggs. How many boxes should I buy?	*3:12*		
15. What fraction is shaded? 	*3:13*	23. Label two acute angles using the letter 'A'. 	*3:26*
16. Circle $\frac{3}{5}$ of the marbles. 	*3:14*		
17. What fraction is labelled? 	*3:15*	24. Favourite colours of students:  6 people said green. Show this.	*3:29*
18. $\frac{1}{4} = \frac{?}{8}$ 	*3:16*		
19. Subtract the fractions. $\frac{7}{8} - \frac{3}{8}$	*3:17*	25. How many more people said 'Red' than said 'Blue'?	*3:30*
20. Write the largest fraction. $\frac{2}{5}\ \frac{1}{5}\ \frac{4}{5}\ \frac{3}{5}$	*3:18*		
Total (B)		Total (C)	

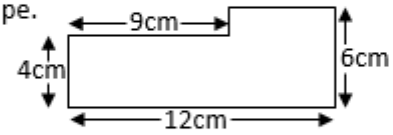
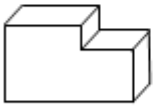
Medium

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions	
1. What is the missing number? 1,000 2,000 ☐ 4,000 5,000	*4:1* **3,000**	11. 9 x 9 =	*4:9* **81**
2. What is the missing number? 200 225 250 275 ☐	*4:1* **300**	12. Complete the sum that is equal to 4 x 5 x 18: 20 x ☐	*4:10* **18**
3. Round this number to the nearest 1,000: 3,192	*4:2* **3,000**	13. 932 x 4 =	*4:11* **3,728**
4. What is 1,000 **more** than 6,394?	*4:2* **7,394**	14. To work out 4 x 55 you could do: 50 x ☐ + ☐ x 4	*4:12* **4, 5**
5. If the temperature starts at 5°C, then drops by 9°C, what is it now?	*4:3* **-4**	15. $\frac{35}{40} = \frac{7}{?}$	*4:13* **8**
6. What is the value of the **8** in this number? 6,283	*4:4* **80**	16. What is the missing number? 9.96 9.97 9.98 9.99 ☐	*4:14* **10(.00)**
7. Write the number 74 in Roman numerals.	*4:5* **LXXIV**	17. $\frac{2}{5} + \frac{4}{5}$	*4:15* $\frac{6}{5}$
8. 4,115 - 1,472 =	*4:6* **2,643**	18. Write 0.8 as a fraction.	*4:16* $\frac{8}{10}$
9. **Estimate** the answer to: 15,507 + 4,489	*4:7* **20,000**	19. 293 ÷ 10 =	*4:17* **29.3**
10. From 300 tickets, pupils buy 89 & parents buy 184. How many are left?	*4:8* **27**	20. Using £20 Rob buys a DVD for £6 and a CD for £6.95. How much left?	*4:18* **£7.05**
Total (A)		Total (B)	

C: Measure, Geometry and Statistics	
21. How many millilitres are there in 2.15 litres?	*4:19* **2,150**
22. Tick (✓) the shape that has **exactly** 2 lines of symmetry. 	*4:25* **Rect-angle**
23. Complete this shape: 	*4:26* **Lines drawn**
24. Number of tyres sold by a garage one weekend: Key: ⊕ = 4 tyres Saturday: ⊕ ⊕ ⊕ ⊕ (part) Sunday: ⊕ ⊕ ⊕ (part) 13 were sold on Sunday. Show this. 25. How many tyres were sold in total over the weekend?	*4:29* **Picto-gram drawn** *4:30* **31**
Total (C)	

Spicy

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions	
1. What is the value of the **4** in this number? 1,348,567	5:1 **40,000**	11. Which is a **common factor** of 12 and 20? 3 4 5 6 10	5:8 **4**
2. Write **eight hundred thousand, three hundred and seven** in digits.	5:1 **800,307**	12. Give two **prime numbers** between 1 and 10.	5:9 **2, 3, 5 or 7**
3. Round 247,599 to the **nearest thousand.**	5:2 **248,000**	13. 628 x 12	5:10 **7,536**
4. What is the missing number? 837 937 ☐ 1,137	5:2 **1,037**	14. 1,278 ÷ 100	5:11 **12.78**
5. What temperature is 15 degrees less than 6 degrees Celsius?	5:3 **-9°C**	15. What is 7^2 ?	5:12 **49**
6. What number is represented by these Roman Numerals? **DXXX**	5:4 **530**	16. $\frac{3}{4} + \frac{1}{8} =$	5:13 $\frac{7}{8}$
7. 12,498 – 3,149 =	5:5 **9,349**	17. Find an **equivalent fraction** of $\frac{1}{4}$. 	5:14 $\frac{2}{8}$ **oe**
8. 24,829 + 83,592 =	5:5 **108,421**	18. Write $\frac{17}{6}$ as a **mixed number.**	5:15 $2\frac{5}{6}$
9. Complete this sum without written working. 15,200 – 4,150 =	5:6 **11,050**	19. $\frac{2}{7}$ x 21 =	5:16 **6**
10. I buy 2 CDs costing £8.45 each. How much change do I get from £20?	5:7 **£3.10**	20. Round 2.37 to 1 decimal place.	5:17 **2.4**
Total (A)		Total (B)	

C: Measure and Problem Solving	
21. Megan and Joe are sharing a pizza. Megan eats 25% of the pizza. Joe eats $\frac{1}{2}$ of the pizza.  What **fraction** of the pizza is left?	*5:19* **$\frac{1}{4}$**
22. How many **centimetres** are there in **3.7 metres**?	*5:20* **370**
23. Calculate the **perimeter** of this shape. 	*5:21* **36cm**
24. Estimate the volume of this shape. Write a, b or c.  a. 6 cm^3. b. 26 cm^3. c. 46 cm^3. 	*5:22* **b**
25. Sarah gets on a train at **2.30pm**. The train journey lasts **110 minutes**. What time does Sarah arrive at her destination?	*5:23* **4.20pm**
Total (C)	