St Mary's Church of England Primary School
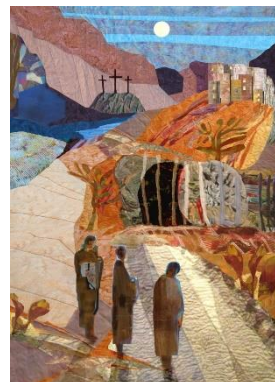
Home Learning

Hello Year Six! I hope you are all okay and staying safe. Try your best at the home learning this week. You are all doing so well – you are home learning heroes! Please continue sending your work to me. I love seeing your brilliant learning!

Class 6	Monday 1.3.2021	Tuesday 2.3.2021	Wednesday 3.3.2021	Thursday 4.3.2021	Friday 5.3.2021
Maths	**Activity 1: Number of the day!** 6,213 • Write it in words. • Round to the nearest 10, 100 and 1000. • Multiply by 10, 100 and 1000. • Divide by 10, 100 and 1000. • Add 6,078. • Subtract 6,191. • Double it (x2). • Half it (÷2). Use a calculator, a phone or google to check your answers.	**Activity 1: Number of the day!** 22,864 • Write it in words. • Round to the nearest 10, 100 and 1000. • Multiply by 10, 100 and 1000. • Divide by 10, 100 and 1000. • Add 78,982. • Subtract 12,852. • Double it (x2). • Half it (÷2). Use a calculator, a phone or google to check your answers.	**Wonderful Wednesday!** Today is a day where there is no online learning. Instead, you can try out some different activities! The Wonderful Wednesday activities can be found on the school website. Please send me photographs of the activities you choose to complete. I would love to see what you get up to!	**Activity 1: Number of the day!** 37,106 • Write it in words. • Round to the nearest 10, 100 and 1000. • Multiply by 10, 100 and 1000. • Divide by 10, 100 and 1000. • Add 17,912. • Subtract 20,010. • Double it (x2). • Half it (÷2). Use a calculator, a phone or google to check your answers.	**Activity 1: Number of the day!** 125,298 • Write it in words. • Round to the nearest 10, 100 and 1000. • Multiply by 10, 100 and 1000. • Divide by 10, 100 and 1000. • Add 13,124. • Subtract 100,000. • Double it (x2). • Half it (÷2). Use a calculator, a phone or google to check your answers.

	Activity 2: **Maths starter** Scroll down to find the questions to complete. They will be under today's date. **Activity 3:** Watch the learning video: Spr6.5.5 - Formulae on Vimeo **Activity 4:** Scroll down to find the worksheet under today's date and complete the questions.	**Activity 2:** **Maths starter** Scroll down to find the questions to complete. They will be under today's date. **Activity 3:** Watch the learning video: Spr6.6.1 - Forming equations on Vimeo **Activity 4:** Scroll down to find the worksheet under today's date and complete the questions.		**Activity 2:** **Maths starter** Scroll down to find the questions to complete. They will be under today's date. **Activity 3:** Watch the learning video: Spr6.6.2 - Solve simple one-step equations on Vimeo **Activity 4:** Scroll down to find the worksheet under today's date and complete the questions.	**Activity 2:** **Maths starter** Complete a top marks game! Mental Maths Tests and Games (topmarks.co.uk) **Activity 3:** Watch the learning video: Spr6.6.3 - Solve two-step equations on Vimeo **Activity 4:** Scroll down to find the worksheet under today's date and complete the questions.
Literacy	**Activity 1:** **Spelling Words** Use a strategy of your choice to learn the spellings for this week. • Privilege • Occupy • Hindrance • Stationary • Stationery • Favour • Humour • Behaviour • Neighbour • Harbour	**Activity 1:** **Spelling Words** Use a strategy of your choice to learn the spellings for this week. • Privilege • Occupy • Hindrance • Stationary • Stationery • Favour • Humour • Behaviour • Neighbour • Harbour		**Activity 1:** **Spelling Words** Use a strategy of your choice to learn the spellings for this week. • Privilege • Occupy • Hindrance • Stationary • Stationery • Favour • Humour • Behaviour • Neighbour • Harbour	**Activity 1:** **Spelling Words** Spelling test. What was your spelling score this week?

	Activity 2: **Grammar Practise** Watch this video to remind yourself what a simple, compound and complex sentence is. What is a simple, compound and complex sentence?	**Activity 2:** **Grammar Practise** Have a go at this online activity to test your knowledge about simple, compound and complex sentences. Simple, compound or complex sentence activity.		**Activity 2:** Try this online activity to test your knowledge on dependent and independent clauses. Remember, a **dependent** clause is one that does not make sense on its own. An **independent** clause will make sense on its own. Dependent and independent clauses activity	**Activity 2:** Watch this video to remind yourself what a pronoun is. What is a pronoun? Have a go at this online activity to test your knowledge about relative pronouns. Remember, a relative pronoun is the subject of the clause, such as 'who', 'whose' and 'which'. Identifying relative pronouns activity.
	Activity 3: Watch the video again. Rock, Paper, Scissors video clip. Can you break it down into 8 key parts? Bullet point each key part as you watch the clip. **Activity 4:** Create a story board using the 8 key events. Draw a picture of each event and write 1-2	**Activity 3:** Watch this video to help you to write a setting description. How to write a setting description. Using your story board that you made yesterday, identify one key event that you are going to write about. Use bullet points or a spider diagram to describe		**Activity 3:** Watch the video again but pay close attention to the fight scene. Rock, Paper, Scissors video clip. Bullet point the events that happen during the fight scene. Include lots of great vocabulary to describe the events as they happen.	**Activity 3:** Write a paragraph or two to describe and retell the fight scene. Use your bullet points from yesterday's lesson to help order the events. Take a look at the suspense toolkit to give you some ideas on how to build tension during the fight scene (you may need to zoom in).

	sentences to describe what is happening.	the setting using the 5 senses. **Activity 4:** Write a short paragraph using your word banks to describe the key event. Can you include a simple, compound and complex sentence?			Suspense toolkit: • Personify the setting to make it sound dangerous – use the weather and/or time of day to create atmosphere • Let the threat get closer and closer • Use rhetorical questions to make the reader worried e.g., *Would Rock ever survive this?* • Reveal the character's thoughts e.g., *He wondered if he would ever escape.* • Slow the action by using sentences of three or use repetition • Vary the paragraph and sentence lengths, including very short ones • Use different types of punctuation
Other Activities	**History** Who is Archduke Franz Ferdinand? **Activity 1:** Watch the learning video: The Assassination of Archduke Franz Ferdinand Cartoon - YouTube Read the information about Franz Ferdinand on this website: Assassination of Archduke Franz Ferdinand | Cool Kid Facts	**Art & DT** Draw, design or build a WW1 plane. You can be as creative as you like! Some of the planes in the picture below are made out of food! 		**RE** **Activity 1:** What did Jesus do to save human beings? Write a few words or phrases that come to mind when you read this question. Why do you think Christians believe human beings need saving? What questions do you have about the question?	**Science** **Activity 1:** Watch the learning videos about classifying animals and plants. Science KS1 / KS2: Grouping living things - BBC Teach Science KS1 / KS2: Classifying and and grouping plants - BBC Teach **Activity 2:** Go on a scavenger hunt in your garden or whilst on a walk to find a range of living things. Can you find

Activity 2:
You have a choice of two activities to complete today.
Choice 1: Write up a newspaper report all about the assassination of Archduke Franz Ferdinand.
OR
Choice 2: Create a poster/fact file all about how WW1 began.

I am looking forward to seeing your work!

French
Activity 1:
Learn how to say your age in French and recap numbers up to 12! Watch the learning video and complete the activities.
https://classroom.thenational.academy/lessons/counting-to-12-and-saying-your-age-cmv6ae

You could present your thoughts and questions in a spider diagram.

Activity 2:
What do you know about the Easter story?
Write down everything you know. Use this image to help you.

Activity 3:
Watch the video which explains the Easter story.
The Story of Easter (Jesus' Sacrifice) - YouTube

How much of the story did you remember?

insects, animals, plants and flowers?

Take photographs or make notes on all the living things you find.

Activity 3:
How could you group and classify all the living things you found?

You could make a diagram to present this information similar to the one from last lesson.

Thinking Time	Take some time out to relax and follow one of these drawing tutorials. Art for Kids Hub - YouTube Send me a picture of what you have drawn. I love seeing all your artwork!	Five finger gratitude. List 5 things you are grateful for – one for each finger!		It is world book day today! Try out some of these activities: • Read a book. • Redesign your favourite book cover. • Write your own novel. • Make a bookmark. • Listen to an audio book. • Dress up as your favourite book character.	Watch Newsround today to see what is happening around the world. Watch Newsround - CBBC Newsround
Exercise and break times		How many different types of exercise can you complete this week? Can you do more than you did last week? •Can you go for a scoot, bike ride, walk or run? •Can you complete an exercise video or recreate a dance routine? •Can you play a ball game? •Can you make up your own exercise routine or obstacle course?			

Maths Starter – 1.3.21

Mild

1. $150 + ? = 500$
2. $172 - ? = 60$
3. $8^2 + ? = 100$
4. $10\% \text{ of } 240 =$
5. $42 \div ? = 7$
6. $2,890 - 346 =$

Medium

1. $2,876 + ? = 5,000$
2. $4,543 - ? = 500$
3. $12^2 + ? = 250$
4. $20\% \text{ of } 2,340 =$
5. $640 \div ? = 80$
6. $98, 424 - 6,675 =$

Hot

1. $32,879 + ? = 55,000$
2. $32,765 - ? = 5,000$
3. $14^2 + ? = 400$
4. $30\% \times 3,450 =$
5. $216 \div ? = 36$
6. $657,989 - 435,657 =$

Mild Answers

1. $150 + 350 = 500$
2. $172 - 112 = 60$
3. $8^2 + 36 = 100$
4. $10\% \text{ of } 240 = 24$
5. $42 \div 6 = 7$
6. $2,890 - 346 = 2,544$

Medium Answers

1. $2,876 + 2,124 = 5,000$
2. $4,543 - 4,043 = 500$
3. $12^2 + 106 = 250$
4. $20\% \text{ of } 2,340 = 468$
5. $640 \div 8 = 80$
6. $98, 424 - 6,675 = 91,749$

Hot Answers

1. $32,879 + 22,121 = 55,000$
2. $32,765 - 27,765 = 5,000$
3. $14^2 + 204 = 400$
4. $30\% \times 3,450 = 1,035$
5. $216 \div 6 = 36$
6. $657,989 - 435,657 = 222,332$

Maths Worksheet – 1.3.21

1 Scott builds a pattern using triangles and circles.

a) Draw the next diagram in the pattern.

b) Scott records the number of triangles and circles in a table.

Complete the table.

Number of triangles	1	2	3	4	5
Number of circles	3				

c) c = number of circles and t = number of triangles

Which formula describes the pattern?

$c = t + 3$	$c = 3t$	$t = 3c$	$t = 3 + c$

d) How many circles will there be with 10 triangles?

Show your working.

2 **a)** Complete the table.

Number of weeks	1	2	3	5	10
Number of days	7				

b) Complete the formula to show the relationship between days (d) and weeks (w).

$d = \boxed{} \ w$

c) How many days are there in 32 weeks?

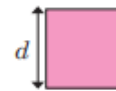**3** **a)** Write a formula for the area and perimeter of the rectangle.
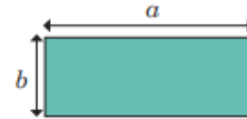
area = _____

perimeter = _____

b) Work out the area and perimeter of the rectangle if a = 17 cm and b = 8 cm.

Show your workings.

4 **a)** Write a formula for the area and perimeter of the square.

area = _____

perimeter = _____

b) Work out the area and perimeter of the square if d = 8.5 cm.

Show your workings.

5 Dora makes a square pattern using lolly sticks.

She records the number of squares and sticks in a table.

a) Continue the pattern and complete the table.

Number of squares, s	1	2	3	4	5
Number of lolly sticks, l	4	7			

Maths Starter – 2.3.21

Mild

1. 5 x 8 x 4 =
2. 5^2 + 16 =
3. 38 x 7 =
4. 4,254 + 3,521 =
5. 8,654 – 2,421 =
6. 3/8 + 1/8 =

Medium

1. 3.7 + 4.008 =
2. 12 – 7.06 =
3. 540 ÷ 2 =
4. 81 x 1,000 =
5. 6^2 + 7^2 =
6. 3/7 – 4/14 =

Hot

1. 7.809 – 2.73 =
2. 3^2 + 4^3 - 6^2 =
3. 6 x 7 x 0 x 6 =
4. 4,015 ÷ 11 =
5. 258,987 – 53, 654 =
6. 1/5 x 1/6 =

Mild Answers

1. 5 x 8 x 4 = 160
2. 5^2 + 16 = 41
3. 38 x 7 = 266
4. 4,254 + 3,521 = 7,775
5. 8,654 – 2,421 = 6,233
6. 3/8 + 1/8 = 4/8 or 1/2

Medium Answers

1. 3.7 + 4.008 = 7.708
2. 12 – 7.06 = 4.94
3. 540 ÷ 2 = 270
4. 81 x 1,000 = 81, 000
5. 6^2 + 7^2 = 85
6. 3/7 – 4/14 = 10/14 or 5/7

Hot Answers

1. 7.809 – 2.73 = 5.079
2. 3^2 + 4^3 - 6^2 = 37
3. 6 x 7 x 0 x 6 = 0
4. 4,015 ÷ 11 = 365
5. 258,987 – 53, 654 = 205,333
6. 1/5 x 1/6 = 1/30

Maths Worksheet – 2.3.21

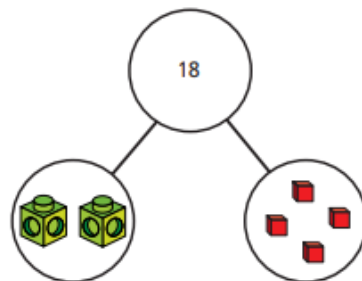**1** Match each equation to the part-whole model it represents.
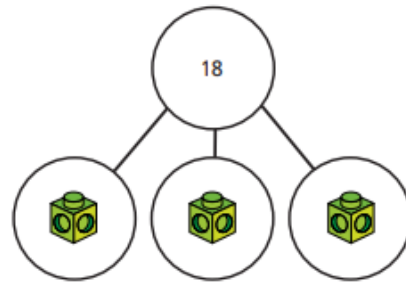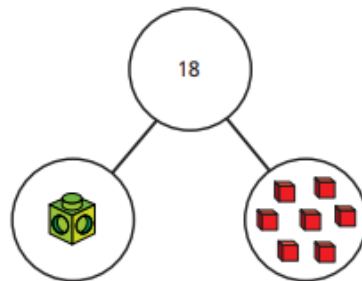
$y + 7 = 18$

$2y + 4 = 18$

$3y = 18$

18

18

18

2 A shop sells these items.

£s £5 £h £m £1 £21

a) The total cost of a scarf and a book is £17

Form an equation to represent this information.

b) The total cost of 2 packets of balloons and a hat is £11

Form an equation to represent this information.

c) The total cost of a pair of headphones, a scarf and 2 boxes of marbles is £39

Form an equation to represent this information.

Create your own problem like this for a partner.

3 Write equations to represent the bar models.

a)

14	
a	a

c)

16		
c	c	10

b)

b			
3	3	3	3

d)

12	
d	5

Is there more than one possible equation for each?

Maths Starter – 4.3.21

Mild

1. (3 x 4) + ? = 19
2. (5 x 5) - ? = 23
3. 69 x 2 =
4. 1/3 of 24 =
5. How much greater is 2 x 10 than 3 x 4?
6. 2,657 + 465 =

Medium

1. (14 x 4) + ? = 77
2. (12 x 3) - ? = 13
3. 234 x 13 =
4. 2/3 x 66 =
5. What is the remainder when 33 is divided by 8?
6. 23,765 + 8, 563 =

Hot

1. (222 x 3) - ? = 300
2. (144 ÷ 12) - ? = 4
3. 12,321 x 25 =
4. 5/7 x 490 =
5. 3 consecutive numbers when multiplied together give 210. What are the numbers?
6. 1,456,980 + 356, 987 =

Mild Answers

1. (3 x 4) + 7 = 19
2. (5 x 5) - 2 = 23
3. 69 x 2 = 138
4. 1/3 of 24 = 8
5. How much greater is 2 x 10 than 3 x 4? 8
6. 2,657 + 465 = 3,112

Medium Answers

1. (14 x 4) + 21 = 77
2. (12 x 3) - 23 = 13
3. 234 x 13 = 3,042
4. 2/3 x 66 = 44
5. What is the remainder when 33 is divided by 8? 1
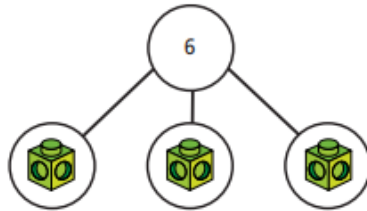6. 23,765 + 8, 563 = 32,328

Hot Answers

1. (222 x 3) - 366 = 300
2. (144 ÷ 12) - 8 = 4
3. 12,321 x 25 = 308,025
4. 5/7 x 490 = 350
5. 3 consecutive numbers when multiplied together give 210. What are the numbers? 5 x 6 x 7
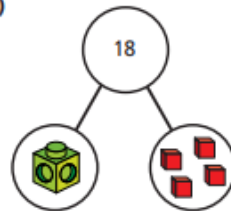6. 1,456,980 + 356, 987 = 1,813,967

Maths Worksheet – 4.3.21

1 Write an equation for each part-whole model.

Work out the value of the multilink cube in each equation.

a)

6

b)

18

2 There are some counters under the cup.

There are 10 counters in total.

a) If c is the number of counters under the cup, explain why

$c + 6 = 10$

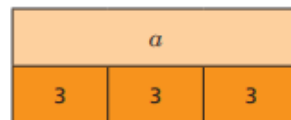b) Work out the value of c.

c) How many counters are under the cup?

3 Write algebraic equations to represent the bar models.
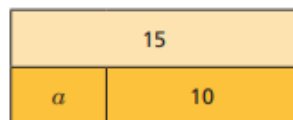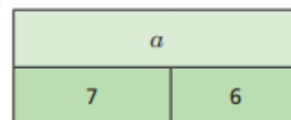
Find the value of a in each one.

a)

8	
a	a

b)

15	
a	10

c)

a		
3	3	3

d)

a	
7	6

4 Nijah is solving the equation $x - 8 = 20$

What mistake has Nijah made?

$x - 8 = 20$

$x = 20 - 8$

$x = 12$

5 Solve the equations.

a) $x + 7 = 20$ c) $4m = 22$ e) $32 = t - 5$

b) $10y = 80$ d) $g - 3 = 15$ f) $\frac{u}{6} = 3$

6 Filip thinks of a number.

He subtracts 5 from his number.

He ends up with 10

Write an algebraic equation to represent Filip's problem.

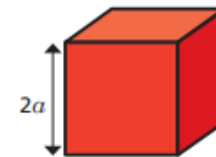Solve the equation to work out his number.

7 Dexter builds a tower.

Each block is $2a$ high.

He uses 7 blocks.

The total height of his tower is 42 cm.

$2a$

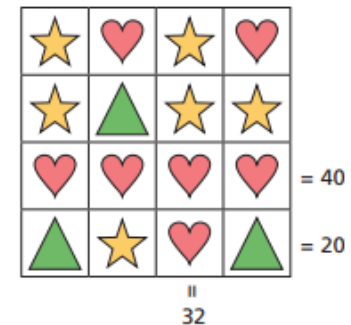Write an equation to represent the height of Dexter's tower and find the value of a.

8 Work out the value of each shape.

Write the equations that you solved to find the value of each shape.
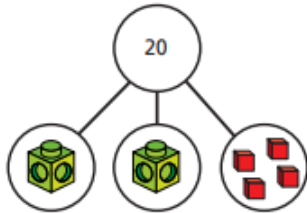
Work out the missing total of each row and column.

Compare answers with a partner.

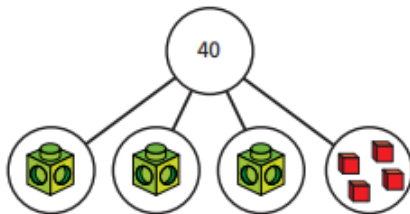= 40

= 20

||

32

Maths Worksheet – 5.3.21
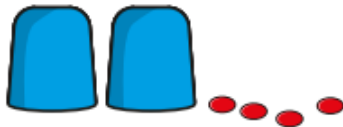
1 Here is a part-whole model.

a) Write an equation for the part-whole model.

b) Solve the equation to work out the value of

**2** If each multilink cube represents x, form and solve an equation to find the value x.

3 There is the same number of counters under each cup.

There are 16 counters in total.

a) Use y to represent the number of counters under each cup.

Write an equation in terms of y.

b) Solve the equation to find the value of y.

c) How many counters are under each cup?

4 Write an algebraic equation to represent each bar model.

Find the values of a and b.

a)

21		
a	a	9

b)

46	
$3b$	10
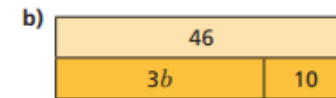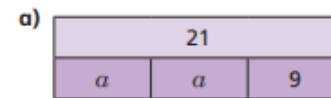
5 Solve the equations.

a) $5x + 1 = 31$

b) $3x - 3 = 9$

c) $4p - 11 = 3$

d) $9 = 2y + 8$

e) $10g - 2 = 46$

f) $4 + 3y = 28$

6 Dani thinks of a number.

She doubles it and adds 3

She gets the answer 15

a) Write an equation to represent Dani's problem.

b) Solve the equation to find her number.

7 Alex is y years old.

Her friend Brett is 3 years older.

The total of their ages is 25

How old are Alex and Brett?

8 a) Work out the cost of one banana and one orange.

£1.52   £1.20

b) Compare methods with a partner.

Maths Worksheet Answers – 1.3.21

1 Scott builds a pattern using triangles and circles.

a) Draw the next diagram in the pattern.

b) Scott records the number of triangles and circles in a table.

Complete the table.

Number of triangles	1	2	3	4	5
Number of circles	3	6	9	12	15

c) c = number of circles and t = number of triangles

Circle the formula that describes the pattern.

$c = t + 3$	$c = 3t$ ✓	$t = 3c$	$t = 3 + c$

d) How many circles will there be with 10 triangles?   **30**

Show your working.

$3 \times 10 = 30$

2 **a)** Complete the table.

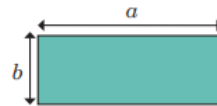| Number of weeks	1	2	3	5	10
Number of days	7	14	21	35	70

b) Complete the formula to show the relationship between days (d) and weeks (w).

$d = \boxed{7} w$

c) How many days are there in 32 weeks?

224

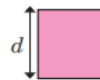**3** **a)** Write a formula for the area and perimeter of the rectangle.

area = ___ab___

perimeter = ___$2a + 2b$___

b) Work out the area and perimeter of the rectangle if
a = 17 cm and b = 8 cm

Show your workings.

area = $\boxed{136 \text{ cm}^2}$ perimeter = $\boxed{50 \text{ cm}}$

4 **a)** Write a formula for the area and perimeter of the square.

area = ___d^2___

perimeter = ___$4d$___

b) Work out the area and perimeter of the square if d = 8.5 cm

Show your workings.

area = $\boxed{72 \cdot 25 \text{ cm}^2}$ perimeter = $\boxed{34 \text{ cm}}$

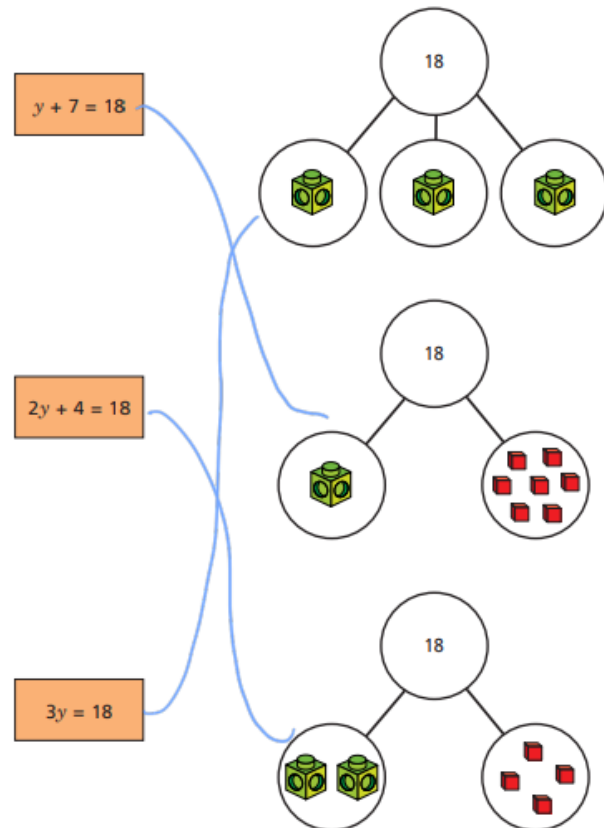**5** Dora makes a square pattern using lolly sticks.

She records the number of squares and sticks in a table.

a) Continue the pattern and complete the table.

Number of squares, s	1	2	3	4	5
Number of lolly sticks, l	4	7	10	13	16

Maths Worksheet Answers – 2.3.21

1 Match each equation to the part-whole model it represents.

$y + 7 = 18$

$2y + 4 = 18$

$3y = 18$

18

18

18

2 A shop sells these items.

£s
£5
£h
£m
£1
£21

a) The total cost of a scarf and a book is £17

Form an equation to represent this information.

$5 + s = 17$

b) The total cost of 2 packets of balloons and a hat is £11

Form an equation to represent this information.

$2 + h = 11$

c) The total cost of a pair of headphones, a scarf and 2 boxes of marbles is £39

Form an equation to represent this information.

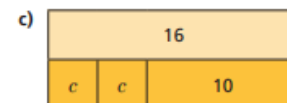$21 + s + 2m = 39$

Create your own problem like this for a partner.

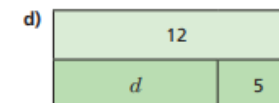**3** Write equations to represent the bar models.

a)

14	
a	a

$2a = 14$

b)

b			
3	3	3	3

$\frac{b}{4} = 3$

c)

16		
c	c	10

$2c + 10 = 16$

d)

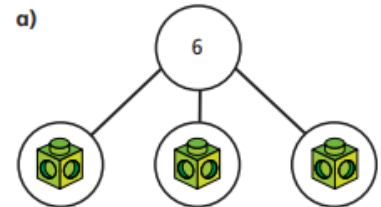| 12	
d	5
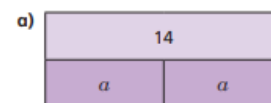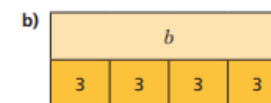
$d + 5 = 12$

Maths Worksheet Answers – 4.3.21

1 Write an equation for each part-whole model.

Work out the value of the multilink cube in each equation.

a)

$3x = 6$

$\blacksquare = \boxed{2}$

b)

$x + 4 = 18$

$\blacksquare = \boxed{14}$

2 There are some counters under the cup.

There are 10 counters in total.

a) If c is the number of counters under the cup, explain why

$c + 6 = 10$

b) Work out the value of c. $c = \boxed{4}$
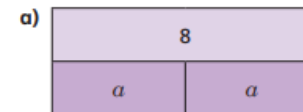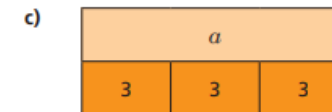
c) How many counters are under the cup? $\boxed{4}$

3 Write algebraic equations to represent the bar models.
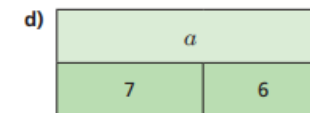
Find the value of a in each one.

a)

8	
a	a

$a = \boxed{4}$

c)

a		
3	3	3

$a = \boxed{9}$

b)

15	
a	10

$a = \boxed{5}$

d)

a	
7	6

$a = \boxed{13}$

4 Nijah is solving the equation $x - 8 = 20$

$x - 8 = 20$

$x = 20 - 8$

$x = 12$

What mistake has Nijah made?

She should have added 8 to 20

$x = 28$

5 Solve the equations.

a) $x + 7 = 20$

d) $g - 3 = 15$

$x = \boxed{13}$

$g = \boxed{18}$

b) $10y = 80$

e) $32 = t - 5$

$y = \boxed{8}$

$t = \boxed{37}$

c) $4m = 22$

f) $\frac{u}{6} = 3$

$m = \boxed{5\cdot5}$

$u = \boxed{18}$

6 Filip thinks of a number.

He subtracts 5 from his number.

He ends up with 10

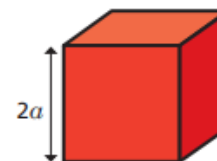Write an algebraic equation to represent Filip's problem.

$\underline{x - 5 = 10}$

Solve the equation to work out his number.

$\boxed{15}$

7 Dexter builds a tower.

Each block is $2a$ high.

He uses 7 blocks.

$2a$

The total height of his tower is 42 cm.

Write an equation to represent the height of Dexter's tower and find the value of a.

$14a = 42$

$a = \boxed{3}$ cm

8 Work out the value of each shape.

Write the equations that you solved to find the value of each shape.

= 40

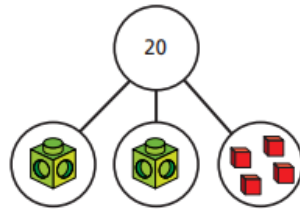= 20

‖
32

$\heartsuit = \boxed{10}$ $\star = \boxed{6}$ $\triangle = \boxed{2}$

Work out the missing total of each row and column.

Maths Worksheet Answers – 5.3.21

1 Here is a part-whole model.

20

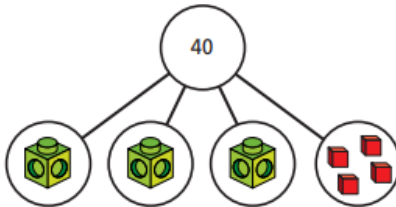a) Write an equation for the part-whole model.

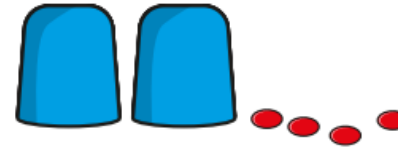$2a + 4 = 20$

b) Solve the equation to work out the value of

= 8

2 If each multilink cube represents x, form and solve an equation to find the value x.

40

$x =$ 12

3 There is the same number of counters under each cup.

There are 16 counters in total.

a) Use y to represent the number of counters under each cup.

Write an equation in terms of y.

$2y + 4 = 16$

b) Solve the equation to find the value of y.

$y =$ 6

c) How many counters are under each cup?

6

4 Write an algebraic equation to represent each bar model.

Find the values of a and b.

a)

21		
a	a	9

b)

46	
$3b$	10

$a =$ 6

$b =$ 12

5 Solve the equations.

a) $5x + 1 = 31$

$x = \boxed{6}$

b) $3x - 3 = 9$

$x = \boxed{4}$

c) $4p - 11 = 3$

$p = \boxed{3\cdot5}$

d) $9 = 2y + 8$

$y = \boxed{0\cdot5}$

e) $10g - 2 = 46$

$g = \boxed{4\cdot8}$

f) $4 + 3y = 28$

$y = \boxed{8}$

6 Dani thinks of a number.

She doubles it and adds 3

She gets the answer 15

a) Write an equation to represent Dani's problem.

$2x + 3 = 15$

b) Solve the equation to find her number.

$\boxed{6}$

7 Alex is y years old.

Her friend Brett is 3 years older.

The total of their ages is 25

How old are Alex and Brett?

Alex is $\boxed{11}$ Brett is $\boxed{14}$

8

£1.52   £1.20

a) Work out the cost of one banana and one orange.

One banana costs $\boxed{32p}$ One orange costs $\boxed{28p}$