Year 6
Independent Maths & English Work Booklet

Answers

2



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Football-Themed Code Breaker **Answers**

Solve the calculations and use the code breaker to spell out football-themed skills.

A	B	C	D	E	F	G	H	I	J	K	L	M
3	10	18	16	1	21	9	14	24	6	19	12	4

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
7	13	20	25	5	23	11	26	22	15	2	17	8

1.

	Answer	Letter
$\frac{2}{3}$ of 21	**14**	**H**
$\frac{1}{10}$ of 10	**1**	**E**
$\frac{1}{3}$ of 9	**3**	**A**
$\frac{4}{5}$ of 20	**16**	**D**
$\frac{1}{5}$ of 5	**1**	**E**
$\frac{1}{6}$ of 30	**5**	**R**

2.

	Answer	Letter
$\frac{1}{4}$ of 44	**11**	**T**
$\frac{1}{6}$ of 18	**3**	**A**
$\frac{3}{4}$ of 24	**18**	**C**
$\frac{1}{2}$ of 38	**19**	**K**
$\frac{2}{3}$ of 18	**12**	**L**
$\frac{1}{6}$ of 6	**1**	**E**

3.

	Answer	Letter
$\frac{3}{4}$ of 28	**21**	**F**
$\frac{1}{4}$ of 20	**5**	**R**
$\frac{1}{7}$ of 7	**1**	**E**
$\frac{1}{12}$ of 12	**1**	**E**
$\frac{1}{3}$ of 57	**19**	**K**
$\frac{4}{5}$ of 30	**24**	**I**
$\frac{6}{7}$ of 21	**18**	**C**
$\frac{1}{10}$ of 190	**19**	**K**

4.

	Answer	Letter
$\frac{2}{5}$ of 35	**14**	**H**
$\frac{1}{5}$ of 15	**3**	**A**
$\frac{4}{5}$ of 15	**12**	**L**
$\frac{3}{7}$ of 49	**21**	**F**
$\frac{2}{3}$ of 33	**22**	**V**
$\frac{1}{2}$ of 26	**13**	**O**
$\frac{3}{4}$ of 16	**12**	**L**
$\frac{2}{3}$ of 18	**12**	**L**
$\frac{1}{100}$ of 100	**1**	**E**
$\frac{1}{2}$ of 34	**17**	**Y**

5.

	Answer	Letter
$\frac{4}{7}$ of 28	**16**	**D**
$\frac{1}{5}$ of 25	**5**	**R**
$\frac{4}{5}$ of 30	**24**	**I**
$\frac{1}{5}$ of 50	**10**	**B**
$\frac{2}{5}$ of 25	**10**	**B**
$\frac{4}{7}$ of 21	**12**	**L**
$\frac{2}{5}$ of 60	**24**	**I**
$\frac{1}{7}$ of 49	**7**	**N**
$\frac{3}{5}$ of 15	**9**	**G**

Year 6 Maths Activity Mat **Answers**

Section 1

In the number 3 927 381, what is the value of the two 3 digits?

3 000 000, 300

Section 2

A stationery store has 2543 pencils in stock. The shop orders a further 1368 pencils and then sells 928 pencils in a month. How many pencils does that shop have left?

2983 pencils

Section 3

Calculate:

				5	8	3			
	1	7	9	9	1	1			
			8	5	↓				
			1	~~4~~ 3	1				
			1	3	6	↓			
					5	1			
					5	1			
						0			

Section 4

Use <, =, or > to compare these fractions:

$\frac{7}{4}$	>	$\frac{3}{2}$
$\frac{7}{6}$	<	$\frac{4}{3}$
$\frac{13}{2}$	=	$\frac{39}{6}$

Section 5

Calculate:

0.02 × 7 = **0.14**

0.06 × 5 = **0.3**

0.08 × 6 = **0.48**

Section 6

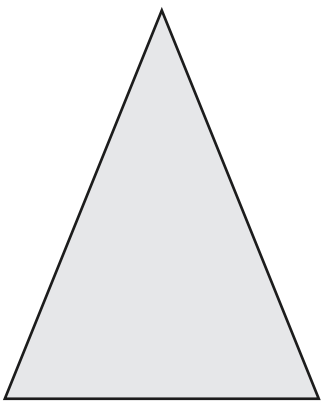
5 miles = 8 km

How many kilometres in 205 miles?

328km

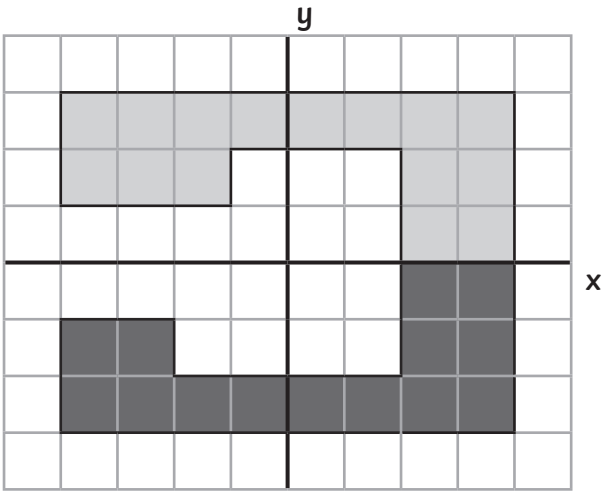
Section 7

Draw an isosceles triangle.



Section 8

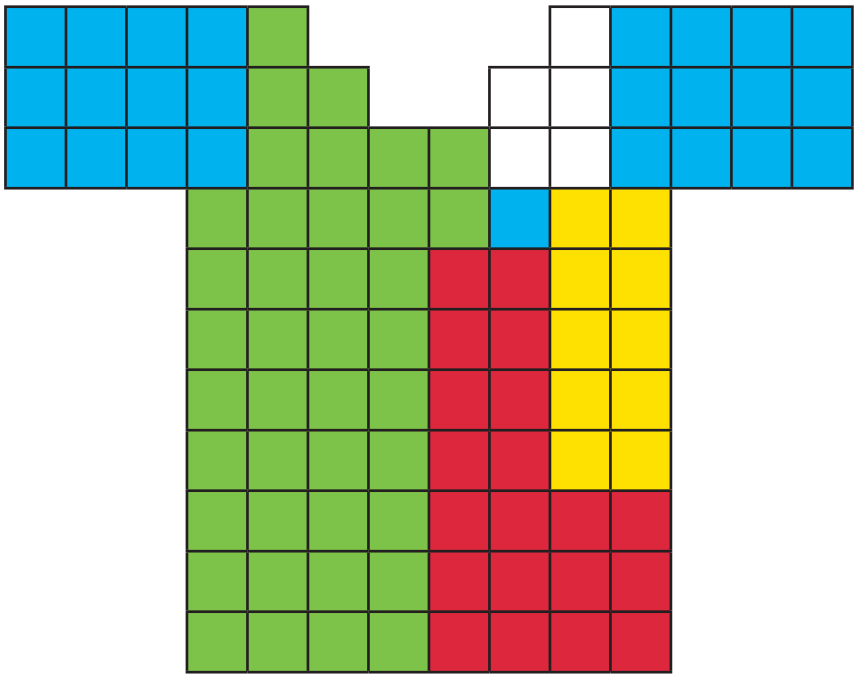
Reflect this shape about the **x**-axis.



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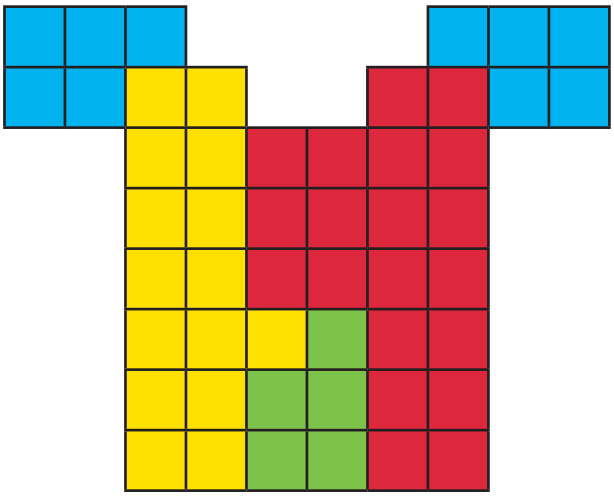
Football Shirt Stained Glass Fractions **Answers**

1. Example design:



	Blue	Red	Green	Yellow	White
Fraction	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{2}{5}$	$\frac{1}{10}$	$\frac{1}{20}$
Number of Parts	**25**	**20**	**40**	**10**	**5**

2. Example design:



	Blue	Red	Green	Yellow
Fraction	$\frac{1}{5}$	$\frac{2}{5}$	$\frac{1}{10}$	$\frac{3}{10}$
Number of Parts	**10**	**20**	**5**	**15**

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Football-Themed Decimal Calculations Mosaic
Answers

Solve the calculations to reveal the hidden picture. Each answer has a special colour.

green = **answer has 2 tenths**	skin colour of your choice = **answer has 3 tenths**	blue = **answer has 4 tenths**	yellow = **answer has 5 tenths**	black = **answer has 6 tenths**	red = **answer has 7 tenths**	hair colour of your choice = **answer has 8 tenths**

0.8 + 8.6	1.9 − 0.5	2.5 − 1.7	2.3 + 4.5	8.9 − 2.1	1.7 + 4.7	1.7 − 1.3	1.2 + 5.2	1.1 − 0.7
2.2 − 0.8	2.8 + 1.6	0.3 + 1.3	8.6 + 3.7	1.9 − 1.3	2.5 − 1.1	6.1 + 9.3	2.4 − 1.7	3.6 − 0.2
8.7 + 3.7	3.3 − 1.9	2.5 − 1.2	2.3 + 9.4	8.6 − 2.3	8.2 + 3.2	4.8 − 2.4	3.8 − 0.1	9.6 + 2.8
4.5 − 2.1	3.3 + 4.1	5.1 − 3.7	5.5 + 9.8	8.6 + 4.8	7.9 − 2.5	3.1 + 3.3	5.9 + 7.4	7.6 − 3.2
5.2 + 0.2	0.8 + 5.7	1.2 − 0.7	0.9 + 2.6	2.6 − 0.1	6.1 + 0.4	8.7 − 1.3	3.8 − 2.3	3.8 + 4.6
9.7 − 1.2	3.3 + 7.1	8.6 + 2.9	4.9 − 1.4	6.2 + 3.3	9.3 − 4.9	8.3 − 6.8	0.1 + 7.3	9.2 − 0.8
5.1 − 0.8	0.7 + 2.5	0.4 + 6.2	2.3 − 0.7	5.9 + 8.7	2.3 − 1.1	0.9 + 8.3	0.5 − 0.3	3.5 + 0.7
9.6 + 1.6	2.9 − 0.7	3.7 − 1.1	6.6 + 6.6	1.1 − 0.5	7.5 + 2.7	3.5 − 1.3	1.1 + 0.1	3.6 − 0.4
4.1 − 0.9	2.8 + 7.4	1.5 + 3.8	5.9 − 1.7	6.4 − 1.1	2.7 + 9.5	4.3 − 0.1	6.4 − 1.2	9.4 + 6.8
3.6 + 8.6	4.7 + 0.9	8.8 − 2.2	6.8 + 6.4	4.4 − 0.8	7.8 + 0.8	7.6 − 2.4	5.4 + 5.8	10.5 − 3.3

Challenge: Write five different calculations involving adding or subtracting decimals which give answers that have 9 tenths. **Accept any suitable answer that includes decimals and results in an answer with 9 tenths.**

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Father William **Answers**

1. Why did Father William used to worry about standing on his head?

   Because he thought it might injure his brain.

2. 'You are old, Father William…'
   List two other ways the poet has shown that father William is an old man.

   Accept any two of the following:

   - **his hair has become whiter;**
   - **he says '…in my youth', meaning when he was younger;**
   - **the young man says '…at your age…', meaning he is too old to be doing it.**

3. Tick true or false in the following table:

	True	False
Father William's hair wasn't always white.	✓	
Father William occasionally stands on his head.		✓
The young man is Father William's son.	✓	

4. Looking through the extract of the poem, do you think Father William should continue to stand on his head? Why/why not?

   Accept reasonable answers, such as:

   - **Yes – he should carry on doing what makes him happy while he still can.**
   - **No – it could be dangerous and he might hurt himself at his old age.**

Spot Mr Whoops' Mistakes **Answers**

Activity 2

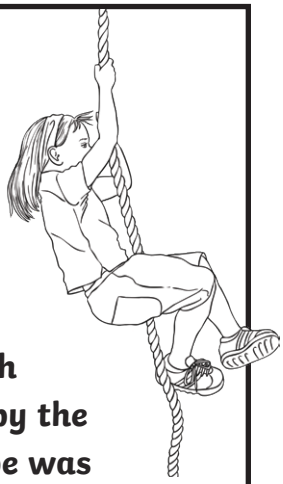
controversy	immediately	apparent
temperature	opportunity	especially
equipped	twelfth	awkward
queue	nuisance	bruises
	harass	

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SPaG Mat **Answers**

Section 1

Can you write a passive sentence about the picture?



Accept any passive sentence with the verb 'to be' + a past participle (with or without the agent, i.e. 'by the girl'). For example: The rope was being climbed (by the girl).

Section 2

Look at the choices of words within the brackets. Circle the correct word to fit the sentence:

The school council **discussed** their ideas for the new playground equipment.

Not being a lover of vegetables, Aaron looked at the sprouts on his plate with **disgust.**

Section 3

Read the sentence below and underline the two words that are synonyms of each other:

Sprinting for his life, Gary was running away from a rampaging bull.

Section 4

Mr Whoops has accidentally jumbled up two adjectives that he used to describe his latest clumsy accident. Can you help him to unjumble them?

DWKWAAR SRIASTUODS



AWKWARD

DISASTROUS

Section 5

Add a suffix to the word 'excite' to create a noun:

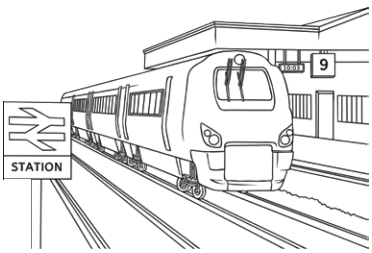
excitement

Section 6

Add a semicolon to mark the end of the independent clause and add another related clause to the sentence.

The train rushed past the station platform

Accept any sentence with a semicolon and another added independent clause relating to the first. For example: The train rushed past the station platform; no passengers wanted to get on.



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The Obstacle Course Catastrophe **Answers**

Clue 1: **Prefix Participants**

mis-	**dis-**	**over-**	**re-**
behave	own	view	view
lead	appear	hear	appear
hear	agree	turn	start
			cycle
			turn

The prefix with the most words is **re-** so the culprit was in the **green** team.

Clue 2: **Is It Possible?**

Statement	**Adverb or Modal Verb?**
Certainly, I helped to set up the obstacle course this morning.	adverb
My mum will **probably** take part in the parents' race – she loves running.	adverb
I **cannot** wait to take part in the races this afternoon.	modal verb
We **might** be able to sew the net back together.	modal verb
As I was setting up the egg and spoon race, I saw a boy with some scissors – **maybe** he was the one who cut the net.	adverb
I am **definitely** winning the skipping race after all the practice I've put in.	adverb

There are more **adverbs** so the culprit is ***female***.

Clue 3: **Sporty Synonyms**

3	4	5	6
sad	**happy**	**slow**	**fast**
forlorn	elated	unhurried	rapid
despondent	delighted	steady	speedy
woeful	ecstatic		zippy
	jovial		

The list with the most synonyms is for the word **happy** so the culprit is in year **4**.

Clue 4: **Catch the Correct Clause**

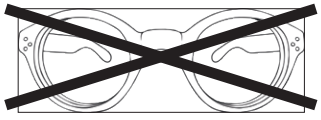
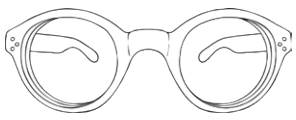
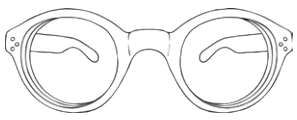
Sentence with Relative Pronoun Missing	Who, Whose or Which?
Bert, _____ is in the Blue team, loves playing football.	**who**
The basketballs, _____ were in the PE cupboard, have all been pumped up ready for Sports Day.	**which**
Frida, _____ parents are coming to watch Sports Day, is most excited about the obstacle course.	**whose**
Despite missing out on the final relay place, Kali, _____is new to the school, wasn't too upset.	**who**
Zeta, _____ favourite sport is tennis, is most excited about the egg and spoon race.	**whose**
Henrietta is wearing her dad's yellow t-shirt, _____ is too big for her.	**which**
Tomasz, _____ is very tall, can't wait for the basketball game.	**who**

I used the relative pronoun **who** the most so the culprit is good at **cricket**.

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Clue 5: **The Race to the Finish Line**

Start

The net was cut by one of the pupils.	Sports Day was delayed by the incident.	Renee Cruz has been practising for the egg and spoon race all week.	The delayed Sports Day devastated the pupils of Wittenberry Junior School.
The incident delayed Sports Day.	The culprit will be discovered by the Detective Chief Inspector.	One of the pupils cut the net.	Mr Clarke is very excited about the teachers' race!
The Detective Chief Inspector will discover the culprit.	The yellow team will be captained by Mitchell Osborne this year.	The headteacher will present the medals.	Penelope Price is the captain of the green team this year.
Keiko Fujisawa is the red team's captain this year.	The pupils of Wittenberry Junior school were devastated by the delayed Sports Day.	The medals will be presented by the headteacher.	Mrs Smith loves marshalling the event.
This year, Pawel Gustav will captain the blue team.	Lots of parents will soon arrive to watch their children compete in the races.	Every skipping race has been won by Erin Gael since she started at Wittenberry Junior School.	Sports Day should start at 1 p.m.
			

The culprit **does not** wear glasses.

The obstacle course was tampered with by Frida Kale.

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