



Home Learning Activity Booklet



Football-Themed Code Breaker



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

A	B	C	D	E	F	G	H	I	J	K	L	M
6	15	21	5	13	24	18	7	12	1	25	19	9

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
22	16	11	26	2	17	20	3	10	8	14	23	4

	Answer	Letter
$36 \div 4$		
4×3		
$55 \div 11$		
4×6		
6×2		
$26 \div 2$		
$38 \div 2$		
$60 \div 12$		
$39 \div 3$		
$10 \div 5$		

	Answer	Letter
$22 \div 2$		
4×3		
4×5		
7×3		
7×1		

	Answer	Letter
5×3		
4×4		
8×2		
5×4		
$34 \div 2$		

	Answer	Letter
$40 \div 5$		
$14 \div 2$		
3×4		
$51 \div 3$		
10×2		
$57 \div 3$		
$39 \div 3$		

	Answer	Letter
$34 \div 2$		
$15 \div 5$		
$55 \div 5$		
$110 \div 10$		
2×8		
1×2		
$80 \div 4$		
$65 \div 5$		
$16 \div 8$		

	Answer	Letter
10×2		
$65 \div 5$		
$24 \div 4$		
$63 \div 7$		

Mixed Times Table Mosaic



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

**skin colour of
your choice**
= 1-6

blue
= 7-30

red
= 31-60

black
= 61-90

green
= 91-109

white
= 110-144

5×5	$81 \div 9$	4×7	$110 \div 11$	$99 \div 9$	$16 \div 8$	$12 \div 3$	$25 \div 5$	$63 \div 9$
5×4	3×10	$108 \div 9$	$36 \div 3$	8×3	$32 \div 8$	$15 \div 3$	$32 \div 8$	3×7
$56 \div 7$	2×8	$36 \div 3$	$96 \div 8$	$84 \div 7$	$8 \div 4$	$28 \div 7$	$36 \div 6$	$56 \div 8$
6×5	$72 \div 9$	$96 \div 8$	8×2	4×4	$55 \div 11$	$35 \div 7$	$11 \div 11$	3×3
$49 \div 7$	7×4	4×5	12×3	11×10	7×6	12×12	11×5	4×9
10×2	7×7	12×4	12×5	12×12	4×9	11×12	7×8	7×6
7×7	9×4	5×9	11×5	12×10	7×7	12×4	11×11	12×5
4×9	8×7	4×9	7×8	6×7	11×11	7×7	11×10	7×6
12×7	8×8	6×12	10×7	7×9	8×11	8×9	12×6	9×9
9×7	9×12	7×11	10×10	9×8	9×11	6×11	8×12	7×12

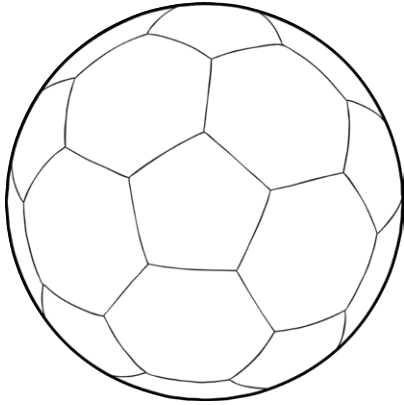
Challenge: Are these calculations true or false? Explain your reasoning.

$$56 \div 8 = 36 \div 4$$

$$3 \times 8 = 12 \times 2$$

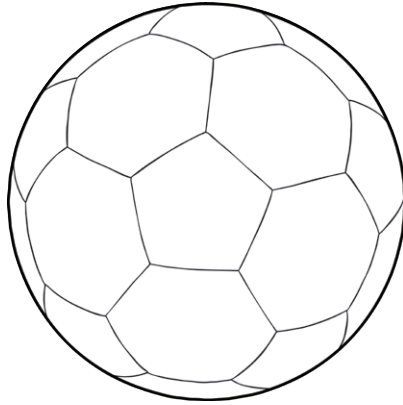
Football-Themed Stained Glass Fractions

Colour the football stained-glass windows to match the fractions listed.



$\frac{2}{5}$: green

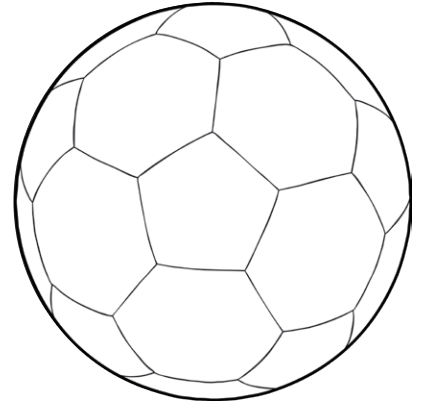
$\frac{3}{5}$: blue



$\frac{1}{6}$: green

$\frac{1}{2}$: yellow

$\frac{1}{3}$: blue

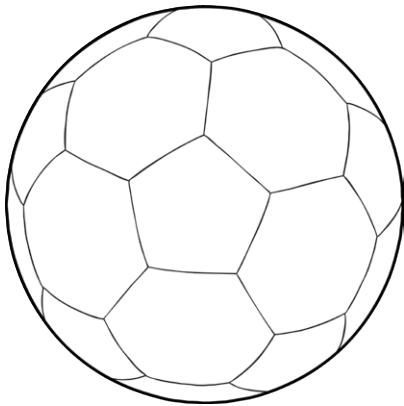


$\frac{2}{5}$: blue

$\frac{1}{5}$: yellow

$\frac{1}{10}$: red

$\frac{3}{10}$: green

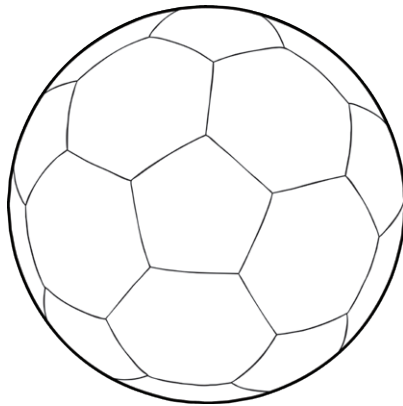


$\frac{3}{8}$: blue

$\frac{1}{4}$: red

$\frac{1}{8}$: yellow

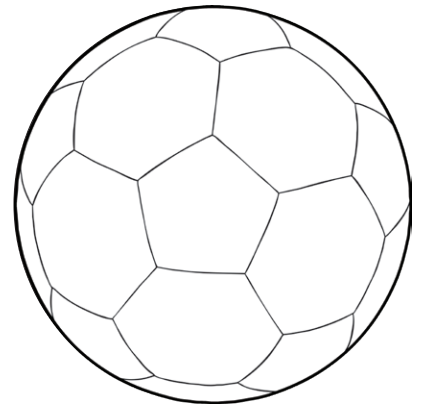
$\frac{1}{4}$: green



$\frac{1}{12}$: yellow

$\frac{5}{12}$: red

$\frac{1}{2}$: green



$\frac{1}{9}$: yellow

$\frac{5}{9}$: green

$\frac{1}{3}$: red

Challenge

Use your fraction knowledge to answer these questions:

1. $\frac{1}{2}$ of 6 =

2. $\frac{2}{5}$ of 10 =

3. $\frac{1}{4}$ of 8 =

4. $\frac{1}{2}$ of 12 =

5. $\frac{1}{3}$ of 9 =

6. $\frac{1}{3}$ of 6 =

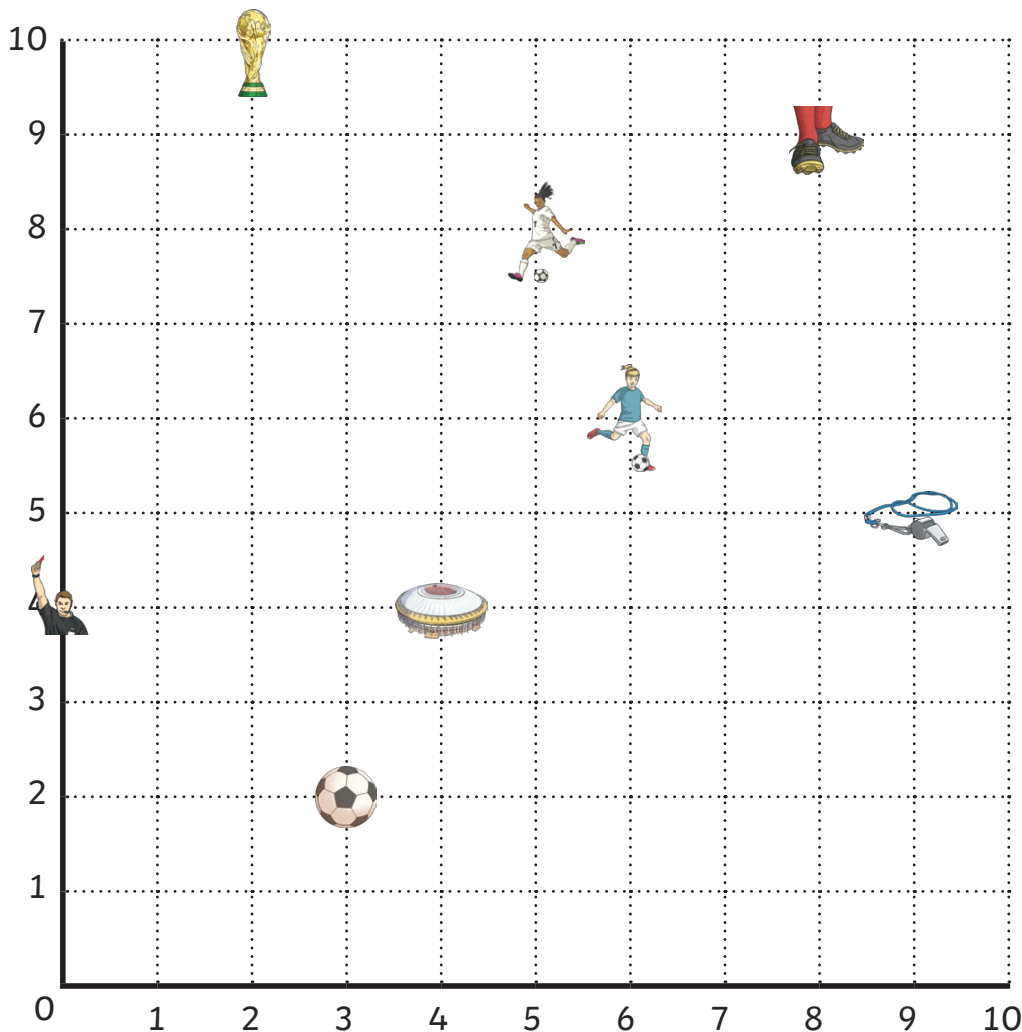
7. $\frac{1}{5}$ of 10 =

8. $\frac{1}{2}$ of 10 =

Football-Themed Coordinates

Write the coordinates of the football-themed objects. Translate them and write the new coordinate.

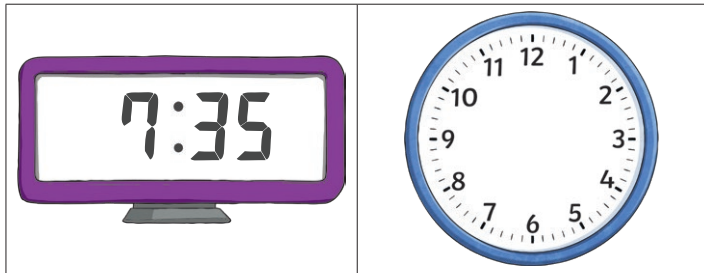
Object	Starting Coordinate	Translation	Finishing Coordinate
		Right 4	
		Down 4	
		Right 3, Down 5	
		Right 6, Up 1	
		Left 3, Up 4	
		Left 7, Up 1	
		Left 1, Down 8	
		Right 5, Up 2	



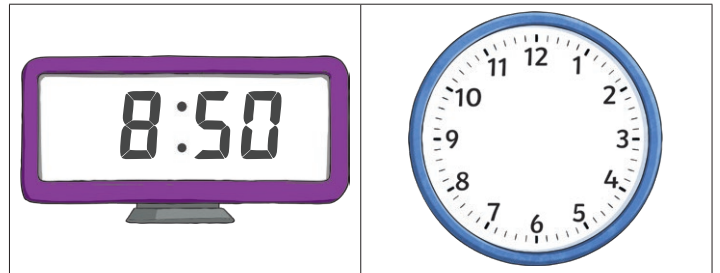
A Day in the Life of a Footballer

Tell the Time

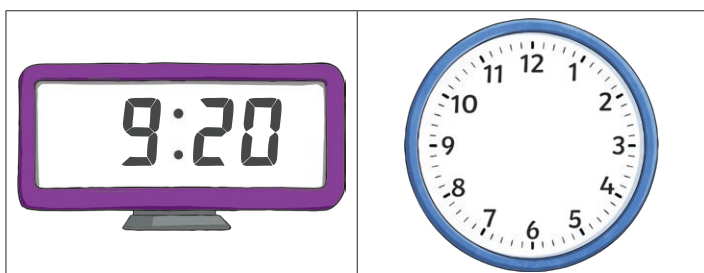
A footballer has a very busy day planned. Tell the time and help them to organise their schedule.



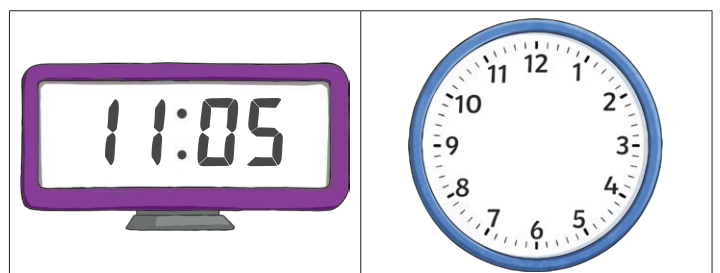
1. Draw the hands on the clock to show the time that the footballer got up.



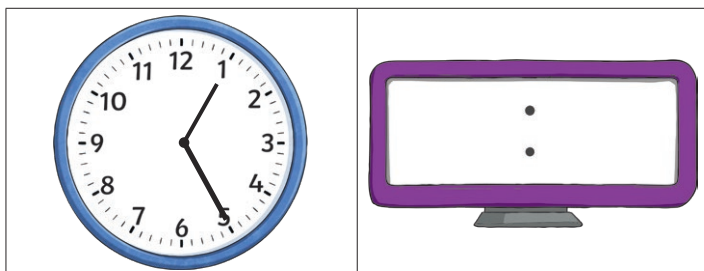
2. Draw the hands on the clock to show the time that they ate their breakfast.



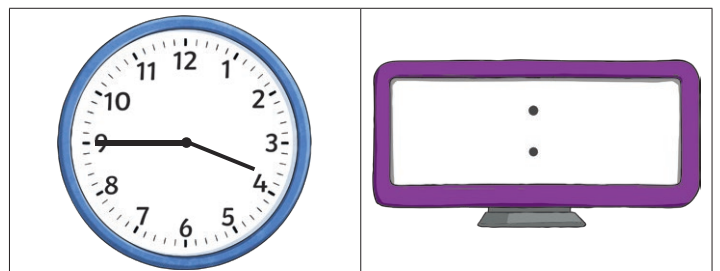
3. Draw the hands on the clock to show the time that they had a shower.



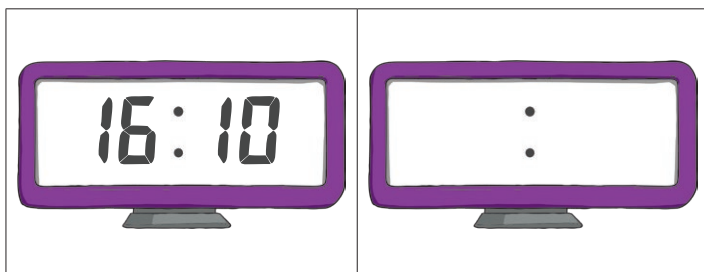
4. Draw the hands on the clock to show the time that the team went for a run.



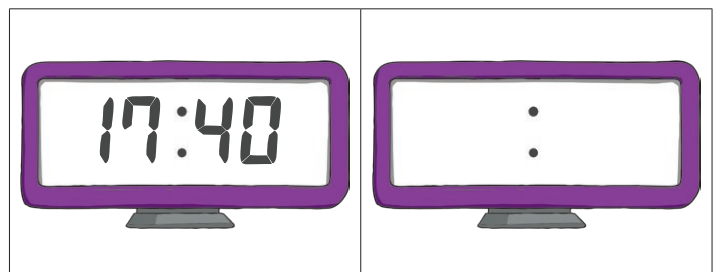
5. Write the 24-hour time on the digital clock to show when they ate their lunch.



6. Write the 24-hour time on the digital clock to show when the team went to the gym.



7. The clock shows the time that the team drove from the gym to the training ground. If the drive took 35 minutes, what time did they arrive at the training ground? Write the time on the digital clock.



8. The clock shows the time that football training started. It lasted for 1 hour 15 minutes. What time did training finish? Write the time on the digital clock.

Football-Themed Code Breaker Answers

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

A	B	C	D	E	F	G	H	I	J	K	L	M
6	15	21	5	13	24	18	7	12	1	25	19	9

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
22	16	11	26	2	17	20	3	10	8	14	23	4

	Answer	Letter
$36 \div 4$	9	M
4×3	12	I
$55 \div 11$	5	D
4×6	24	F
6×2	12	I
$26 \div 2$	13	E
$38 \div 2$	19	L
$60 \div 12$	5	D
$39 \div 3$	13	E
$10 \div 5$	2	R

	Answer	Letter
$22 \div 2$	11	P
4×3	12	I
4×5	20	T
7×3	21	C
7×1	7	H

	Answer	Letter
5×3	15	B
4×4	16	O
8×2	16	O
5×4	20	T
$34 \div 2$	17	S

	Answer	Letter
$40 \div 5$	8	W
$14 \div 2$	7	H
3×4	12	I
$51 \div 3$	17	S
10×2	20	T
$57 \div 3$	19	L
$39 \div 3$	13	E

	Answer	Letter
$34 \div 2$	17	S
$15 \div 5$	3	U
$55 \div 5$	11	P
$110 \div 10$	11	P
2×8	16	O
1×2	2	R
$80 \div 4$	20	T
$65 \div 5$	13	E
$16 \div 8$	2	R

	Answer	Letter
10×2	20	T
$65 \div 5$	13	E
$24 \div 4$	6	A
$63 \div 7$	9	M

Football-Themed Mixed Times Table

Mosaic Answers

skin colour of your choice = 1-6		blue = 7-30	red = 31-60	black = 61-90	green = 91-109	white = 110-144		
5 × 5	81 ÷ 9	4 × 7	110 ÷ 11	99 ÷ 9	16 ÷ 8	12 ÷ 3	25 ÷ 5	63 ÷ 9
5 × 4	3 × 10	108 ÷ 9	36 ÷ 3	8 × 3	32 ÷ 8	15 ÷ 3	32 ÷ 8	3 × 7
56 ÷ 7	2 × 8	36 ÷ 3	96 ÷ 8	84 ÷ 7	8 ÷ 4	28 ÷ 7	36 ÷ 6	56 ÷ 8
6 × 5	72 ÷ 9	96 ÷ 8	8 × 2	4 × 4	55 ÷ 11	35 ÷ 7	11 ÷ 11	3 × 3
49 ÷ 7	7 × 4	4 × 5	12 × 3	11 × 10	7 × 6	12 × 12	11 × 5	4 × 9
10 × 2	7 × 7	12 × 4	12 × 5	12 × 12	4 × 9	11 × 12	7 × 8	7 × 6
7 × 7	9 × 4	5 × 9	11 × 5	12 × 10	7 × 7	12 × 4	11 × 11	12 × 5
4 × 9	8 × 7	4 × 9	7 × 8	6 × 7	11 × 11	7 × 7	11 × 10	7 × 6
12 × 7	8 × 8	6 × 12	10 × 7	7 × 9	8 × 11	8 × 9	12 × 6	9 × 9
9 × 7	9 × 12	7 × 11	10 × 10	9 × 8	9 × 11	6 × 11	8 × 12	7 × 12

Challenge: Are these calculations true or false? Explain your reasoning.

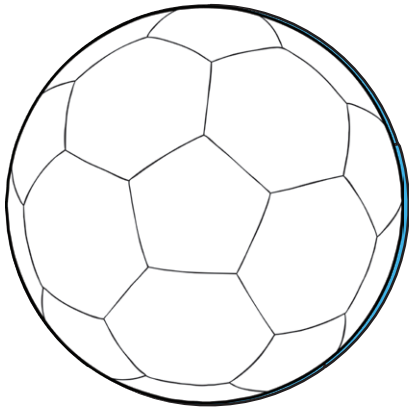
$$56 \div 8 = 36 \div 4$$

This is false because 7 is less than 9.

$$3 \times 8 = 12 \times 2$$

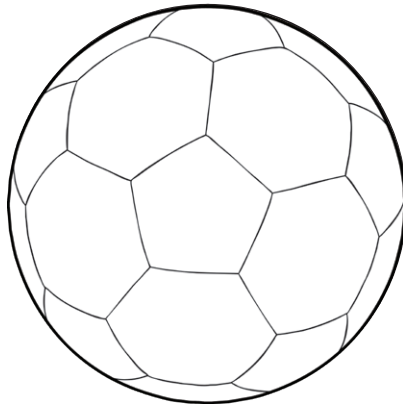
This is true because both calculations equal 24.

Football-Themed Stained Glass Fractions **Answers**



$\frac{2}{5}$: green (2 sections coloured)

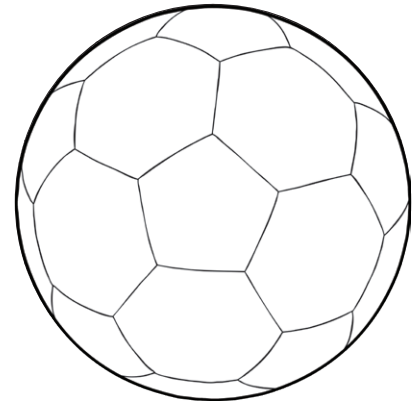
$\frac{3}{5}$: blue (3 sections coloured)



$\frac{1}{6}$: green (1 section coloured)

$\frac{1}{2}$: yellow (3 sections coloured)

$\frac{1}{3}$: blue (2 sections coloured)

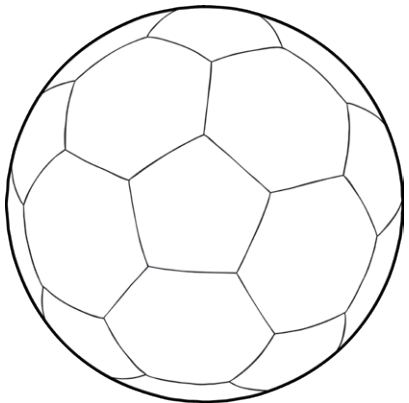


$\frac{2}{5}$: blue (4 sections coloured)

$\frac{1}{5}$: yellow (2 sections coloured)

$\frac{1}{10}$: red (1 section coloured)

$\frac{3}{10}$: green (3 sections coloured)

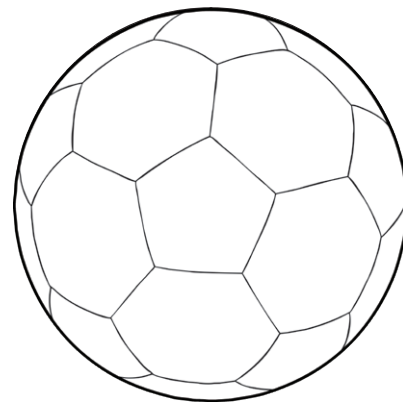


$\frac{3}{8}$: blue (3 sections coloured)

$\frac{1}{4}$: red (2 sections coloured)

$\frac{1}{8}$: yellow (1 section coloured)

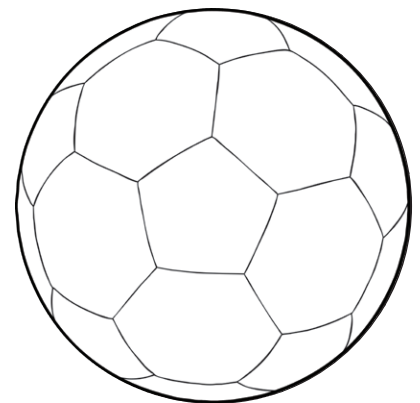
$\frac{1}{4}$: green (2 sections coloured)



$\frac{1}{12}$: yellow (1 section coloured)

$\frac{5}{12}$: red (5 sections coloured)

$\frac{1}{2}$: green (6 sections coloured)



$\frac{1}{9}$: yellow (1 section coloured)

$\frac{5}{9}$: green (5 sections coloured)

$\frac{1}{3}$: red (3 sections coloured)

Challenge

1. $\frac{1}{2}$ of 6 = **3**

2. $\frac{2}{5}$ of 10 = **4**

3. $\frac{1}{4}$ of 8 = **2**

4. $\frac{1}{2}$ of 12 = **6**

5. $\frac{1}{3}$ of 9 = **3**

6. $\frac{1}{3}$ of 6 = **2**

7. $\frac{1}{5}$ of 10 = **2**

8. $\frac{1}{2}$ of 10 = **5**

Football-Themed Coordinates **Answers**

Write the coordinates of the football-themed objects. Translate them and write the new coordinate.

Object	Starting Coordinate	Translation	Finishing Coordinate
	(3,2)	Right 4	(7,2)
	(8,9)	Down 4	(8,5)
	(6,6)	Right 3, Down 5	(9,1)
	(0,4)	Right 6, Up 1	(6,5)
	(4,4)	Left 3, Up 4	(1,8)
	(9,5)	Left 7, Up 1	(2,6)
	(2,10)	Left 1, Down 8	(1,2)
	(5,8)	Right 5, Up 2	(10,10)

A Day in the Life of a Footballer Tell the Time **Answers**

1. Analogue clock showing twenty-five to eight
2. Analogue clock showing ten to nine
3. Analogue clock showing twenty past nine
4. Analogue clock showing five past eleven
5. Digital clock showing 13:25
6. Digital clock showing 15:45
7. Digital clock showing 16:45
8. Digital clock showing 18:55