

Fractions



Name: _____

1 What fraction of the shape is shaded?



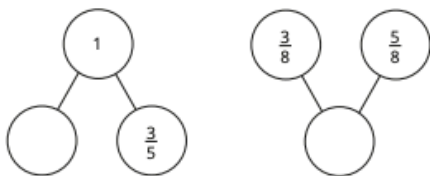
1 mark

What fraction is the arrow pointing to?



1 mark

2 Complete the part-whole models.



2 marks

3 Sort the fractions into the table.

$\frac{1}{6}$

$\frac{7}{6}$

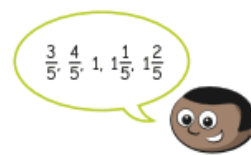
$1\frac{1}{6}$

$\frac{6}{6}$

Less than one whole	One whole	Greater than one whole

2 marks

4 Mo is counting up in fifths.



What number will he say next?

1 mark

5 Complete the table.

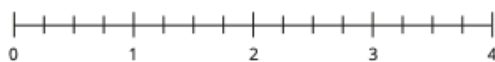
Representation	Mixed number	Improper fraction
		$\frac{8}{3}$
	$1\frac{3}{4}$	

2 marks

6 Draw arrows to show the position of each number on the number line.

$\frac{8}{4}$

$3\frac{3}{4}$



2 marks

7 Use the fraction wall to find the equivalent fractions.



$\frac{1}{3} = \frac{\square}{12}$

$1 = \frac{\square}{12} = \frac{\square}{6} = \frac{\square}{3}$

1 mark

1 mark

8 Complete the calculations.

$\frac{12}{5} - \frac{4}{5} = \frac{\square}{\square}$

$\frac{4}{5} + \frac{3}{5} = 1 + \frac{\square}{5}$

1 mark

1 mark

Should:

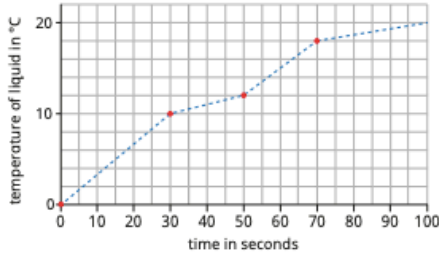
Version B

Statistics



Name: _____

1 The graph shows the temperature of a liquid as it is heated.



How long does it take the liquid to reach 10 °C?

seconds 1 mark

What is the temperature of the liquid after 70 seconds?

°C 1 mark

By how many degrees does the temperature increase between 40 and 70 seconds?

°C 1 mark

3 The table shows the start times of some films at a cinema.

Mission 2	The Witch	Pirate	Lion Man
10:30	13:30	12:30	12:10
14:45	14:30	14:00	12:45
16:10	17:30	14:50	15:20
19:40	20:30	18:30	16:40

Which film has a showing that starts in the morning?

_____ 1 mark

Which film starts at 5:30 pm?

_____ 1 mark

Jack arrives at the cinema at 2:05 pm.

He wants to watch *Pirate*.

How long does he have to wait?

_____ 1 mark

Lion Man lasts 90 minutes.

What time does the 12:10 showing finish?

_____ 2 marks

Another liquid is heated for 100 seconds.

- The temperature of the liquid at the start is 5 °C.
- After 20 seconds, the temperature is 10 °C.
- It takes another 60 seconds to increase by 7°C.
- After 100 seconds, the temperature is 20 °C.

Show this information on the graph.

3 marks

2 The table shows the distance in kilometres between some places in the UK.

	Plymouth	Bristol	Birmingham	Manchester	Glasgow
Plymouth	-	195	325	453	787
Bristol	195	-	157	270	598
Birmingham	325	157	-	139	466
Manchester	453	270	139	-	347
Glasgow	787	598	466	347	-

What is the distance between Manchester and Glasgow?

km 1 mark

Which place is 270 km away from Bristol?

_____ 1 mark

On Monday, Mr Rose drives from Plymouth to Birmingham.

On Tuesday he drives from Birmingham to Glasgow.

How far does he drive in total?

km 1 mark

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4 The table shows information about pizzas sold in a shop.

	Thin crust	Deep pan	Total
Cheese	14	26	
Vegetable	33	19	52
Chicken		7	
Total	71		123

How many more deep-pan cheese pizzas were sold than thin-crust cheese pizzas?

1 mark

How many thin crust chicken pizzas were sold?

2 marks

Complete the table.

3 marks

Could:

Please mark your work so you can revise anything you got wrong.

Question	Answer	Marks	Notes and guidance									
1	$\frac{2}{5}$	1										
	$\frac{5}{7}$	1										
2		2	<p>Award 1 mark for each answer correctly indicated.</p> <p>Accept $\frac{8}{8}$ for the second part-whole model.</p>									
3	<table border="1"> <thead> <tr> <th>Less than one whole</th> <th>One whole</th> <th>Greater than one whole</th> </tr> </thead> <tbody> <tr> <td>$\frac{1}{6}$</td> <td>$\frac{6}{6}$</td> <td>$\frac{7}{6}$</td> </tr> <tr> <td></td> <td></td> <td>$1\frac{1}{6}$</td> </tr> </tbody> </table>	Less than one whole	One whole	Greater than one whole	$\frac{1}{6}$	$\frac{6}{6}$	$\frac{7}{6}$			$1\frac{1}{6}$	2	Award 1 mark for three answers correctly indicated.
Less than one whole	One whole	Greater than one whole										
$\frac{1}{6}$	$\frac{6}{6}$	$\frac{7}{6}$										
		$1\frac{1}{6}$										
4	$1\frac{3}{5}$	1	Accept $\frac{8}{5}$									
5	<table border="1"> <thead> <tr> <th>Representation</th> <th>Mixed number</th> <th>Improper fraction</th> </tr> </thead> <tbody> <tr> <td> </td> <td>$2\frac{2}{3}$</td> <td>$\frac{8}{3}$</td> </tr> <tr> <td> </td> <td>$1\frac{3}{4}$</td> <td>$\frac{7}{4}$</td> </tr> </tbody> </table>	Representation	Mixed number	Improper fraction		$2\frac{2}{3}$	$\frac{8}{3}$		$1\frac{3}{4}$	$\frac{7}{4}$	2	Award 1 mark for each answer correctly indicated.
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	$1\frac{3}{4}$	$\frac{7}{4}$										
6		2	<p>Award 1 mark for each answer correctly indicated.</p> <p>Accept slight inaccuracies if the intention is clear.</p>									

Question	Answer	Marks	Notes and guidance
7	$\frac{1}{3} = \frac{\boxed{4}}{12}$	1	
	$1 = \frac{\boxed{12}}{12} = \frac{\boxed{6}}{6} = \frac{\boxed{3}}{3}$	1	
8	$\frac{12}{5} - \frac{4}{5} = \frac{\boxed{8}}{\boxed{5}}$	1	Accept $1\frac{3}{5}$
	$\frac{4}{5} + \frac{3}{5} = 1 + \frac{\boxed{2}}{5}$	1	Do not accept $\frac{7}{5}$

1	30 seconds	1	
	18°C	1	
	7°C	1	
		3	<p>Award 1 mark for 2 of the points plotted correctly.</p> <p>Award 2 marks for three of the points plotted correctly.</p>
2	347 km	1	
	Manchester	1	
	791 km	1	
3	Mission 2	1	
	The Witch	1	
	45 minutes	1	
	13:40	2	<p>Award 1 mark for sight of 90 minutes = 1 hour 30 minutes</p> <p>Accept 20 minutes to 2 or 1:40 pm</p>

Question	Answer	Marks	Notes and guidance																			
4	12	1																				
	24	2	Award 1 mark for sight of $71 - 14 - 33$																			
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