

NAME
------

**Time: 60 minutes****Non-Calculator Questions (30 minutes)**

- 1 Pablo got  $\frac{34}{50}$  in a Geography examination. He got  $\frac{67}{100}$  in a History examination.

In which examination did Pablo get the higher percentage mark?

You must show your working clearly.

**(2 marks)**

- 2 9 out of 20 students play a musical instrument.

Write 9 out of 20 as a percentage.

**(2 marks)**

- 3 Increase 840 metres by 10%

**(3 marks)**

- 4 Decrease £6 by 20%

**(3 marks)**

- 5 Work out  $\frac{2}{5} + \frac{7}{15}$

Give your answer in its simplest form.

**(2 marks)**



6 Work out  $1 - \frac{7}{11}$

(1 mark)



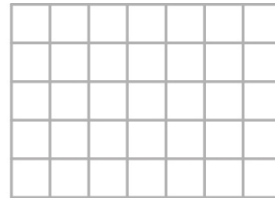
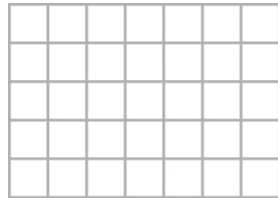
7 Here are two fractions.

$$\frac{3}{7} \text{ and } \frac{2}{5}$$

Which is the larger fraction?

You must show working to explain your answer.

You may use the grids to help with your explanation.



(2 marks)



8 Find  $\frac{2}{5}$  of 350 cm.

(2 marks)



9 Complete the table.

Fraction	Decimal	Percentage
$\frac{1}{4}$	0.25	25%
$\frac{3}{10}$		
	0.23	
		7%

(3 marks)



10 Work out  $\frac{2}{3} \div \frac{9}{10}$

**(2 marks)**



11 Work out  $1\frac{1}{2} \times 2\frac{1}{5}$

Give your answer as a mixed number.

**(3 marks)**

NAME
------


**Calculator Questions (30 minutes)**


12 Write 42 centimetres as a percentage of 3 metres.

**(2 marks)**



13 Ruth is a Maths teacher.

She has made some cards with calculations on them.

Here are three cards.

$57.92 + 12.35$	$72\% \text{ of } 96.5$	$\frac{5}{8} \text{ of } 112$
-----------------	-------------------------	-------------------------------

Which of these three cards shows the calculation with the greatest answer?

You must show your working.

**(4 marks)**



14 Petra invests £2500 at 1.75% simple interest.

a Find the simple interest when £2500 is invested for 1 year at 1.75%

**(2 marks)**

b How many years will it take for the simple interest to be more than £160?

**(1 marks)**



15 Reduce \$460 by 7%

(3 marks)



16 Write these amounts in order of size, with the smallest first.

65%    0.615     $\frac{2}{3}$     0.63     $\frac{5}{8}$

(3 marks)



17 Primrose is making rice pudding.

She needs 1.2 litres of milk.

In the fridge, she finds three milk cartons that each contain 1 litre of milk when full.

She finds

- one carton is half full of milk
- one carton has 0.35 litres of milk in it
- one carton is 32% full of milk.

Does Primrose have enough milk to make the rice pudding?

(4 marks)



18 Work out  $5\frac{2}{5} - 2\frac{1}{3}$

Give your answer as a mixed number.

(2 marks)



19 Pedro has a 4% pay rise.

His hourly rate before the pay rise was £9.25

Abigail has a pay rise of  $\frac{1}{20}$  of her current wage.

Her hourly rate before the pay rise was £9.20

Which of Pedro or Abigail earns the greater hourly rate after their pay rises?

You must show your working.

(4 marks)

Overall mark	/50
--------------	-----