

Addition/Subtraction/ Multiplication/Division of Fractions & Decimals

Question Paper 2

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Level	IGCSE A
Subject	Maths (0582)
Exam Board	Cambridge International Examinations (CIE)
Paper Type	Extended
Topic	Number
Sub-Topic	Add/Sub/Multiplication/Division of Fractions & Deci
Booklet	Question Paper 2

Time Allowed: 64 minutes

Score: /53

Percentage: /100

Grade Boundaries:

A*	А	В	С	D	Е	U
>85%	75%	60%	45%	35%	25%	<25%

	. 12
1	Without using a calculator, work out $\frac{6}{7}$ \vdots $\frac{1}{3}$
	Write down all the steps in your working.

2 Write down all your working to show that the following statement is correct.

$$\frac{1+\frac{8}{9}}{2+\frac{1}{2}} = \frac{34}{45}$$

Answer

3 Show that $\left(\frac{1}{10}\right)^2 + \left(\frac{2}{5}\right)^2 = 0.17$.

Write down all the steps in your working.

Answer

[2]

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Write down all the steps in your working.

Answer

5	Without using your calculator, work out	$1\frac{5}{6} + \frac{9}{10}$
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You must show your working and give your answer as a mixed number in its simplest form.

[3]

$$1\frac{1}{2} + \frac{1}{3} + \frac{1}{4} = \frac{p}{12}$$

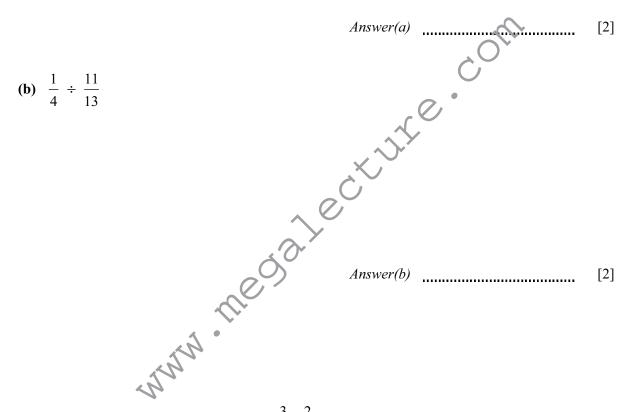
Work out the value of p.

6

Show all your working.

$$Answer p =$$
 [2]

- 7 **Without using your calculator**, work out the following. **Show all the steps of your working** and give each answer as a fraction in its simplest form.
 - (a) $\frac{11}{12} \frac{1}{3}$



8 Write down all the working to show that $\frac{\frac{3}{5} + \frac{1}{3}}{3}$

Answer

9 Jiwan incorrectly wrote $1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} = 1\frac{3}{9}$.

Show the correct working and write down the answer as a mixed number.

Answer [3]

10 Show that $3^{-2} + 2^{-2} = \frac{13}{36}$.

Write down all the steps of your working.

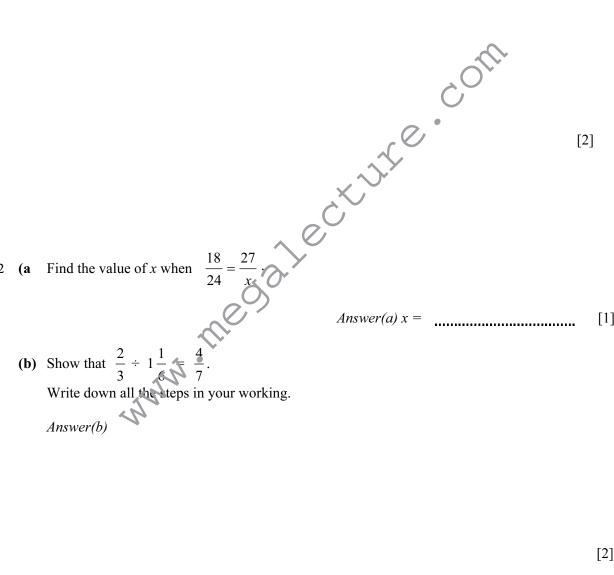
Answer

Show that

$$1\frac{5}{9} \div 1\frac{7}{9} = \frac{7}{8} \cdot$$

Write down all the steps in your working.

Answer



12 (a Find the value of x when

$$Answer(a) x = [1]$$

1 3	Write each number correct to 1 significant figure and estimate the value of the calculation	n.
	You must show your working.	

$$2.65 \times 4.1758 + 7.917$$

14 Show that
$$\frac{7}{27} + 1\frac{7}{9} = 2\frac{1}{27}$$
.

Write down all the steps in your working.

Answer

15 Write down the number which is 3.6 less than -4.7.

[1]

16 Show that $3\frac{3}{4} + 1\frac{1}{3} = 5\frac{1}{12}$.

Write down all the steps in your working.

17 Write as a single fraction $\frac{3a}{8} + \frac{4}{4}$ [2]

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18	The maximum	speed of a	car is 25	52. km/h

Change this speed into metres per second.

Answer _____ m/s [2]

19 Write
$$\frac{1}{c} + \frac{1}{d} - \frac{c-d}{cd}$$
 as a single fraction in its simplest form.

Answer [3]

20 Work out the value of $1 + \frac{2}{3 + \frac{4}{5+6}}$.

Answer		[2]
	•	

21 $\frac{4c}{5} - \frac{3c}{35} = \frac{10}{7}$. Find c.

Answer
$$c =$$
 [2]

 $\frac{2}{3} + \frac{5}{6} = \frac{x}{2}.$

Find the value of x.

Answer(a) x = [1]

(b) $\frac{5}{3} \div \frac{3}{y} = \frac{40}{9}.$

Find the value of *y*.

 $Answer(b) y = \underline{\qquad} [1]$

23 Work out the value of

$$\frac{-\frac{1}{2} - \frac{3}{8}}{-\frac{1}{2} + \frac{3}{8}}.$$

Answer [2]