

End of Unit Test

Name: Answers



Ratio and Proportion - FOUNDATION

- 1) A drink is mixed in the ratio
lemonade : orange : cranberry = 6 : 3 : 2
What fraction is orange? Circle your answer.

$\frac{3}{8}$

$\frac{2}{11}$

$\frac{3}{11}$

$\frac{6}{11}$

(Total 1 mark)

- 2) 120 adults complete a survey. 45 are men. Write the ratio of men : women in its simplest form.

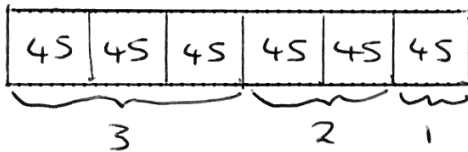
$45 : 75$ ($\div 5$) OR $45 : 75$ ($\div 15$)
 $9 : 15$ ($\div 3$)

Answer $3 : 5$

(Total 2 marks)

- 3) Divide 270 in the ratio $3 : 2 : 1$ 6 parts total

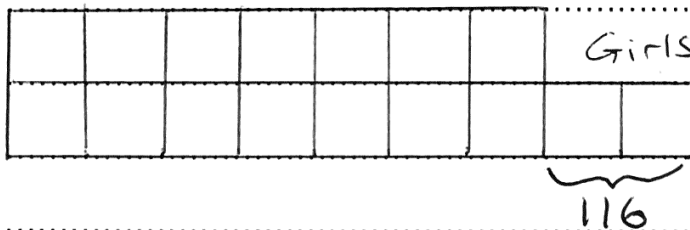
$270 \div 6 = 45$



Answer $135 : 90 : 45$

(Total 3 marks)

- 4) At a school, number of boys : number of girls $9 : 7$. There are 116 more boys than girls. Work out the total number of students at the school.



Girls 58
Boys $16 \times$
 348
 $580 +$
 928

$116 \div 2 = 58$

$58 \times 16 = 928$

Answer 928

(Total 3 marks)

5) Here are the ingredients to make 8 biscuits

- 75 g flour
 - 50 g sugar
 - 40 g butter
 - 2 egg yolk
- } × 25

Work out the ingredients to make 20 biscuits

20 ÷ 8 = 2.5

Flour 150 + 37.5 = 187.5

Sugar 100 + 25 = 125

Butter 80 + 20 = 100

187.5 g flour

125 g sugar

100 g butter

5 egg yolk

(Total 13 marks)

6) Here are two offers for biscuits

<p>OFFER A</p> <p>Pack of 40 biscuits</p> <p>£2.52</p> <p>$\frac{1}{3}$ free</p>	<p>OFFER B</p> <p>Pack of 5 biscuits</p> <p>£2.75</p> <p>Pay for 2 packs get 1 free</p>
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2 marks for each part

2 marks for each part

Offer A

40 ÷ 4 = 10 packs

$\frac{2}{3}$ of £2.52 → £0.84

£0.84 × 10 = £8.40

£8.40 + £1.68 = £10.08

10 × £1.68 = £16.80

Offer B

40 ÷ 5 = 8 packs

Pay for 6

6 × £2.75 = £16.50

A sw Offer B

(Total 5 marks)

- 7) Laura buys a saddle in the UK for £950. Delivery is free.
Steve buys the same saddle from Holland for 990 Euros. He pays 30 Euros for delivery.
£1 = 1.10 Euros
Including the delivery charge, whose saddle is cheaper? You must show your working.

$$\underline{\underline{£950 \times 1.1 = 950 + 95 = €1045}}$$

$$\underline{\underline{€990 + €30 = €1020}}$$

Answer Steve's from Holland.
(Total 3 marks)

(Total for test = 20 marks)