R8. Percentage increase/decrease NON CALC

<u>OCR</u>

Created by V	N	Nell	
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(c) Decrease 650 by 40%.

(c)[3]

(c) Decrease 650 by 40%.

R8

40% x 650 = 260

10% = 65

(c) 390 [3

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(b)	In 2016, Pippa paid £1650 rent.
	In 2017, the rent increased by 14%.

Calculate the amount of rent she paid in 2017.

(b) £.....[3]

- (b) In 2016, Pippa paid £1650 rent. In 2017, the rent increased by 14%.
- **R8**

Calculate the amount of rent she paid in 2017.

£1650+£231

17 The price of a computer was £750.

Created by W Neill

In a sale the price is reduced by 20%. On the final day the **sale price** is reduced by a further 12%.

How much is saved in total by buying the computer on the final day of the sale?

£.....[5]

In a sale the price is reduced by 20%. On the final day the **sale price** is reduced by a further 12%. $\frac{1}{2}$ 750 \times 0.8 \times 0.88

How much is saved in total by buying the computer on the final day of the sale?

$$\begin{array}{c}
201. \text{ of } £750 \\
= £150 \\
= £72 \\
= £600
\end{array}$$

$$\begin{array}{c}
Final day \\
121. \text{ of } £600 \\
= £72 \\
= £600-£72 \\
= £528
\end{array}$$

$$\begin{array}{c}
Squed \\
£750-£528 \\
= £222 \\
= £222 \\
= £222 \\
= £528$$

7 Naomi is given a 10% pay decrease. Her new wage is £252 per week.

(12) What would be her weekly wage if, instead, she had received a 10% pay increase?

£[5]

7 Naomi is given a 10% pay decrease.

Her new wage is £252 per week.

88

(1)2 What would be her weekly wage if, instead, she had received a 10% pay increase?

$$1999252 = 90/.$$
 $1252 = 90/.$
 $107.$
 $1280 = 100/.$
 $1280 = 100/.$
 $1280 = 100/.$
 $1280 = 100/.$

Edexcel

	(Total for Question 22 is 2 marks)				
	Is Betty correct? Explain why.				
	"The cooker is now the same price as it was before the sale."				
	Betty says,				
22	In a sale, the price of a cooker is reduced by 50% At the end of the sale, the sale price of the cooker is increased by 50%				

22 In a sale, the price of a cooker is reduced by 50% At the end of the sale, the sale price of the cooker is increased by 50% Betty says,

"The cooker is now the same price as it was before the sale."

Is Betty correct? Explain why.

(Total for Question is 2 marks)

110, I have used a counter example to show why

Video created by W Neill

20 Azmol is paid £1500 per month.

He is going to get a 3% increase in the amount of money he is paid.

Work out how much money Azmol will be paid per month after the increase.

20 Azmol is paid £1500 per month.

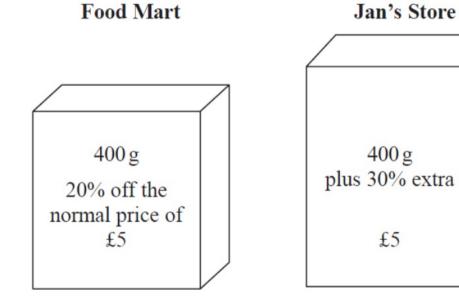
He is going to get a 3% increase in the amount of money he is paid.

Work out how much money Azmol will be paid per month after the increase.

$$10i. = £150$$
 $x3 \left(\frac{1i.}{3i.} = £15 \right) x3$

£1545

R18 R8 Each shop has a special offer.



Which box of cereal is the better value for money? You must show your working.

(Total for Question 18 is 4 marks)

18 Food Mart and Jan's Store sell boxes of the same type of breakfast cereal.

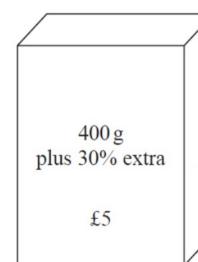
Each shop has a special offer. **R18**

R8

Food Mart

400 g 20% off the normal price of £5

Jan's Store



Food Mart 201. 925.00

$$30\% = 1209$$

Which box of cereal is the better value for money? You must show your working. FM = 44 = 400g ES = 520g ES =

(Total for Question 18 is 4 marks)

Video Created by W Neill

- 22 A bonus of £2100 is shared by 10 people who work for a company. 40% of the bonus is shared equally between 3 managers.
- The rest of the bonus is shared equally between 7 salesmen.

R8 One of the salesmen says,

"If the bonus is shared equally between all 10 people I will get 25% more money."

Is the salesman correct?

You must show how you get your answer.

(Total for Question 22 is 5 marks)

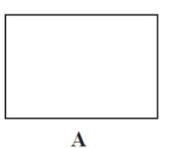
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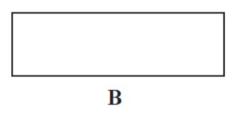
"If the bonus is shared equally between all 10 people I will get 25% more money."

Is the salesman correct? You must show how you get your answer. |80| ... each salesman gets |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80| ... |80

11 Here are two rectangles.

R8 N39





The length of rectangle **B** is 25% greater than the length of rectangle **A**.

The width of rectangle **B** is $\frac{3}{5}$ × the width of rectangle **A**.

Find the fraction $\frac{\text{area of rectangle } \mathbf{B}}{\text{area of rectangle } \mathbf{A}}$

Give your answer in its simplest form.

.....

(Total for Question 11 is 3 marks)

R8 N39

> 251.0f8 =7cm

8cm 80cm 10cm 60cm² Give these numbers

The length of rectangle $\bf B$ is 25% greater than the length of rectangle $\bf A$.

The width of rectangle **B** is $\frac{3}{5}$ × the width of rectangle **A**.

Find the fraction $\frac{\text{area of rectangle } \mathbf{B}}{\text{area of rectangle } \mathbf{A}}$

Give your answer in its simplest form.

80

35 of 10 = 6

34/

(Total for Question 11 is 3 marks)

<u>AQA</u>

Bottles of drink are for sale at three shops. Video created by W Neill The normal price of a bottle is the same at each shop. N13 Shop B

R8

Shop A Buy 1 bottle Get 2 more bottles at half price

Buy 2 bottles Get 3 more bottles at half price

Shop C

30% off a bottle

What is the cheapest way to buy exactly 8 bottles?

You can buy from more than one shop.

You must show your working.

[3 marks]

Answer		

18 Bottles of drink are for sale at three shops.

The normal price of a bottle is the same at each shop.

N13
Shop A
Buy 1 bottle
Get 2 more bottles at half price

Shop C
30% off a bottle

What is the cheapest way to buy exactly 8 bottles?

You can buy from more than one shop.

You must show your working.

Video created by W Neill Shop B Buy 2 bottles Get 3 more bottles at half price

6 bottles from A

Answer and 2 bottles from C