

Unitary Method - Worksheet

Skill

Group A - working with money

Find the cost:

1) 3 items cost 60p
Find the cost of 1 item

2) 3 items cost 60p
Find the cost of 5 items

3) 3 items cost 60p
Find the cost of 7 items

4) 4 items cost 72p
Find the cost of 1 item

5) 4 items cost 72p
Find the cost of 6 items

6) 4 items cost 72p
Find the cost of 9 items

7) 5 items cost 85p
Find the cost of 1 item

8) 5 items cost 85p
Find the cost of 3 items

9) 5 items cost 85p
Find the cost of 7 items

10) 7 items cost £1.61
Find the cost of 1 item

11) 7 items cost £1.61
Find the cost of 2 items

12) 7 items cost £1.61
Find the cost of 12 items

Group B - working with mass

Find the weight:

1) 4 portions weigh 100 g
Find the weight of 1 portion

2) 4 portions weigh 100 g
Find the weight of 3 portions

3) 4 portions weigh 100 g
Find the weight of 9 portions

4) 6 portions weigh 180 g
Find the weight of 1 portion

5) 6 portions weigh 180 g
Find the weight of 7 portions

6) 6 portions weigh 180 g
Find the weight of 10 portions

7) 5 portions weigh 800 g
Find the weight of 1 portion

8) 5 portions weigh 800 g
Find the weight of 3 portions

9) 5 portions weigh 800 g
Find the weight of 14 portions

10) 8 portions weigh 960 g
Find the weight of 1 portion

11) 8 portions weigh 960 g
Find the weight of 5 portions

12) 8 portions weigh 960 g
Find the weight of 12 portions

Unitary Method - Worksheet

Applied

- 1)** A recipe for 24 flapjacks needs:
120 g butter
100 g sugar
200 g oats
20 g of golden syrup
- (a)** How much butter is needed to make 30 flapjacks?
- (b)** Find the amount of the other ingredients for 30 flapjacks.
- 2)** **(a)** Shop A sells 4 cans of cola for £1.20.
How much does it cost for 1 can of cola?
- (b)** Shop B sells 6 cans of cola for £1.68.
How much does it cost for 1 can of cola?
Which is the better buy?
- 3)** **(a)** 100 g of chocolate contains 540 calories.
How many calories are there in 30 g of chocolate?
- (b)** If Zoe eats a 30 g bar of chocolate every day for a week, how many calories has she consumed from eating the chocolate?
- 4)** **(a)** Henry is charged £8.40 for using the internet for $1\frac{1}{2}$ hours.
Find the cost of using the internet for 30 minutes.
- (b)** Find the cost of using the internet for 4 hours.
- 5)** **(a)** It takes 12 workers 8 hours to paint a house.
How long would it take 16 men to paint a similar house?
- (b)** It takes 15 machines 12 hours to complete a job.
How long would it take 20 machines to complete the same job?

Unitary Method - Exam Questions

- 1) A shopkeeper buys sacks of potatoes from a local farmer to sell in their shop. 3 sacks of carrots cost £12.

How much would 5 sacks of carrots cost?

£.....
(2 marks)

- 2) Given that 5 miles $\approx$ 8 km, convert 17 miles to km.

.....km
(2 marks)

- 3) Fruit crumble is made using these ingredients:

The fruit crumble is for 6 people

500 g fruit

200 g sugar

120 g flour

30 g butter

- (a) Anita makes a fruit crumble for 12 people, how much sugar does she use?

.....g
(1)

- (b) Bali makes a fruit crumble for 15 people, how much flour does he use?

.....g
(2)
(3 marks)

Unitary Method - Exam Questions

- 4) A swimming pool can be filled in 16 hours with 4 taps.
If one of the taps is broken, how long does it take to fill the swimming pool? Write your answer in hours and minutes.

.....hours
(3)

Unitary Method - Answers

	Question	Answer
	Skill Questions	
Group A	Find the cost: 1) 3 items cost 60p. Find the cost of 1 item 2) 3 items cost 60p. Find the cost of 5 items 3) 3 items cost 60p. Find the cost of 7 items 4) 4 items cost 72p. Find the cost of 1 item 5) 4 items cost 72p. Find the cost of 6 items 6) 4 items cost 72p. Find the cost of 9 items 7) 5 items cost 85p. Find the cost of 1 item 8) 5 items cost 85p. Find the cost of 3 items 9) 5 items cost 85p. Find the cost of 7 items 10) 7 items cost £1.61. Find the cost of 1 item 11) 7 items cost £1.61. Find the cost of 2 items 12) 7 items cost £1.61. Find the cost of 12 items	1) 20p or £0.20 2) 100p or £1 3) 140p or £1.40 4) 18p or £0.18 5) 108p or £1.08 6) 162p or 1.62 7) 17p or £0.17 8) 51p or £0.51 9) 119p or £1.19 10) 23p or £0.23 11) 46p or £0.46 12) 276p or £2.76
Group B	Find the weight: 1) 4 portions weigh 100 g. Find the weight of 1 portion 2) 4 portions weigh 100 g. Find the weight of 3 portions 3) 4 portions weigh 100 g. Find the weight of 9 portions 4) 6 portions weigh 180 g. Find the weight of 1 portion 5) 6 portions weigh 180 g. Find the weight of 7 portions 6) 6 portions weigh 180 g. Find the weight of 10 portions 7) 5 portions weigh 800 g. Find the weight of 1 portion 8) 5 portions weigh 800 g. Find the weight of 3 portions 9) 5 portions weigh 800 g. Find the weight of 14 portions 10) 8 portions weigh 960 g. Find the weight of 1 portion 11) 8 portions weigh 960 g. Find the weight of 5 portions 12) 8 portions weigh 960 g. Find the weight of 12 portions	1) 25 g 2) 75 g 3) 225 g 4) 30 g 5) 210 g 6) 300 g 7) 160 g 8) 480 g 9) 2240 g 10) 120 g 11) 600 g 12) 1440 g

Unitary Method - Answers

	Question	Answer
	Applied Questions	
1)	A recipe for 24 flapjacks needs: 120 g butter 100 g sugar 200 g oats 20 g of golden syrup a) How much butter is needed to make 30 flapjacks? b) Find the amount of the other ingredients for 30 flapjacks.	a) Butter - 150 g b) Sugar - 125 g Oats - 250 g Golden syrup - 25 g
2)	a) Shop A sells 4 cans of cola for £1.20. How much does it cost for 1 can of cola? b) Shop B sells 6 cans of cola for £1.68. How much does it cost for 1 can of cola? Which is the better buy?	a) 30p or £0.30 b) 28p or £0.28 B is the better buy
3)	a) 100 g of chocolate contains 540 calories. How many calories are there in 30 g of chocolate? b) If Zoe eats a 30 g bar of chocolate every day for a week, how many calories has she consumed from eating the chocolate?	a) 162 calories b) 1134 calories
4)	a) Henry is charged £8.40 for using the internet for $1\frac{1}{2}$ hours. Find the cost of using the internet for 30 minutes. b) Find the cost of using the internet for 4 hours.	a) £2.80 b) £22.40
5)	a) It takes 12 workers 8 hours to paint a house. How long would it take 16 men to paint a similar house? b) It takes 15 machines 12 hours to complete a job. How long would it take 20 machines to complete the same job?	a) 6 hours b) 9 hours

Unitary Method - Mark Scheme

	Question	Answer	
	Exam Questions		
1)	A shopkeeper buys sacks of potatoes from a local farmer to sell in their shop. 3 sacks of carrots cost £12. How much would 5 sacks of carrots cost?	$12 \div 3 \times 5$ £20	(1) (1)
2)	Given that 5 miles $\approx$ 8 km, convert 17 miles to km.	$8 \div 5 \times 17$ 27.2 km	(1) (1)
3) (a)	Fruit crumble is made using these ingredients: 500 g fruit 200 g sugar 120 g flour 30 g butter The fruit crumble is for 6 people Anita makes a fruit crumble for 12 people, how much sugar does she use?	(a) 400 g	(1)
(b)	Bali makes a fruit crumble for 15 people, how much flour does he use?	(b) $120 \div 6 \times 15$ 300 g	(1) (1)
4)	A swimming pool can be filled in 16 hours with 4 taps. If one of the taps is broken, how long does it take to fill the swimming pool? Write your answer in hours and minutes.	$4 \times 16 \div 3$ 21.3 hours oe 21 hours 20 minutes	(1) (1) (1)

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