

Percentages

Question Paper 8



- 1 (a Abdullah and Jasmine bought a car for \$9000. Abdullah paid 45% of the \$9000 and Jasmine paid the rest.
 - (i) How much did Jasmine pay towards the cost of the car?

Answer(a)(i) \$ [2]

(ii) Write down the ratio of the payments Abdullah: Jasmine in its simplest form.

Answer(a)(ii) : [1]

(b) Last year it cost \$2256 to run the car. Abdullah, Jasmine and their son Henri share this cost in the ratio 8:3:1. Calculate the amount each paid to run the car.

	 Answer(b) Abdullah \$
	 Jasmine \$
[3]	 Henri \$

(c) A new truck costs \$15000 and loses 23% of its value each year. Calculate the value of the truck after three years.

Answer(c)(i) \$ [3]

(ii) Calculate the overall percentage loss of the truck's value after three years.

- 2 Chris goes to a shop to buy meat, vegetables and fruit.
 - (a) The costs of the meat, vegetables and fruit are in the ratio

meat : vegetables : fruit = 2 : 2 : 3.

The cost of the meat is \$2.40.

Calculate the **total** cost of the meat, vegetables and fruit.

	Answer(a)(i) \$	[2]
(ii)	Chris pays with a \$20 note.	
	What percentage of the \$20 has he spent?	
	Answer(a)(ii) %	[2]

(b) The masses of the meat, vegetables and fruit are in the ratio

meat : vegetables : fruit = 1 : 8 : 3.

The total mass is 9 kg.

Calculate the mass of the vegetables.

Answer(b) kg [2]

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(c) Calculate the cost per kilogram of the fruit.

Answer(c) \$ [3]

(d) The cost of the meat, \$2.40, is an increase of 25% on the cost the previous week.Calculate the cost of the meat the previous week.

Answer(d) \$ [2]

3 Hassan sells fruit and vegetables at the market.

(a)	The mass of fruit and vegetables he sells is in the ratio $fruit$: vegetables = 5 : 7	
	Hassan sells 1.33 tonnes of vegetables.	
	How many kilograms of fruit does he sell?	[3]
(b)	The amount of money Hassan receives from selling fruit and vegetables is in the ratio fruit : vegetables = 9 : 8. Hassan receives a total of \$765 from selling fruit and vegetables.	
	Calculate how much Hassan receives from selling fruit.	[2]
(c)	Calculate the average price of Hassan's fruit, in dollars per kilogram.	[2]
(d)	Hassan sells oranges for \$0.35 per kilogram.	
	He reduces this price by 40%.	[2]
	Calculate the new price per knogram.	[2]
	(ii) The price of \$0.35 per kilogram of oranges is an increase of 25% on the previous day's price. Calculate the previous day's price.	[2]
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- 4 Tickets for the theatre cost either \$10 or \$16.
 - (a) Calculate the total cost of 197 tickets at \$10 each and 95 tickets at \$16 each. [1]
 - (b) On Monday, 157 tickets at \$10 and *n* tickets at \$16 were sold. The total cost was \$4018. Calculate the value of *n*. [2]
 - (c) On Tuesday, 319 tickets were sold altogether. The total cost was \$3784. Using *x* for the number of \$10 tickets sold and *y* for the number of \$16 tickets sold, write down two equations in *x* and *y*.

Solve your equations to find the number of \$10 tickets and the number of \$16 tickets sold. [5]

[2]

- (d) On Wednesday, the cost of a \$16 ticket was reduced by 15%. Calculate this new reduced cost.
- (e) The \$10 ticket costs 25% more than it did last year. Calculate the cost last year. [2]