## Percentages

## Question Paper 8

| Level | IGCSE |
| :--- | :--- |
| Subject | Maths (0580) |
| Exam Board | Cambridge International Examinations (CIE) |
| Paper Type | Extended |
| Topic | Number |
| Sub-Topic | Percentages |
| Booklet | Questic.CPper 8 |
|  |  |

Time Allowed:
Score:
Percentage:

56 minutes
/46
/100

Grade Boundaries:

| $A^{*}$ | A | B | C | D | E | U |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $>85 \%$ | $75 \%$ | $60 \%$ | $45 \%$ | $35 \%$ | $25 \%$ | $<25 \%$ |

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) \$
(ii) Write down the ratio of the payments Abdullah: Jasmine in its simplest form.
Answer(a)(ii) ................ : ...............
(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.
$\qquad$
Jasmine \$ $\qquad$
(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) \$
(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

$$
\text { meat: vegetables : fruit }=2: 2: 3 \text {. }
$$

The cost of the meat is $\$ 2.40$.
Calculate the total cost of the meat, vegetables and fruit.

(ii) Chris pays with a $\$ 20$ note.

What percentage of the $\$ 20$ has he spent?

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

$$
\text { meat }: \text { vegetables }: \text { fruit }=1: 8: 3 \text {. }
$$

The total mass is 9 kg .
Calculate the mass of the vegetables.
(c) Calculate the cost per kilogram of the fruit.
Answer(c) \$
(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.

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?
(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.
(c) Calculate the average price of Hassan's fruit, in dollars per kilogram.
(d) Hassan sells oranges for $\$ 0.35$ per kilogram.

He reduces this price by $40 \%$.
Calculate the new price per kilogram.
(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.

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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.
(b) On Monday, 157 tickets at $\$ 10$ and $n$ tickets at $\$ 16$ were sold. The total cost was $\$ 4018$. Calculate the value of $n$.
(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.
(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.

