

10 In Koko's shop

5 chocolate bars cost \$5.75

2 chocolate bars and 3 packets of sweets cost \$7.85

Work out the cost of one packet of sweets.

\$.....

(Total for Question 10 is 3 marks)

11 Akiko travelled from London to Tokyo by plane.

The plane left London at 1840 on Friday.

The plane arrived in Tokyo the next day, at 0625 London time.

How long did the flight take?

Give your answer in hours and minutes.

..... hours minutes

(Total for Question 11 is 2 marks)



12 (a) Expand $x(4 - x)$

.....
(1)

$$t = ab - c$$

$$a = 1.5 \quad b = 2.4 \quad c = -5.6$$

(b) Work out the value of t .

$$t = \text{.....}$$

(2)

(c) Make d the subject of $y = dx - e$

.....
(2)

(Total for Question 12 is 5 marks)

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13 (a) Express 180 as a percentage of 750

..... %
(2)

Zaina has booked a singer for a show.
The singer will get 94% of the total money from the ticket sales.

The cost of each ticket for the show is 32.50 dirhams.
Zaina sells 180 tickets.

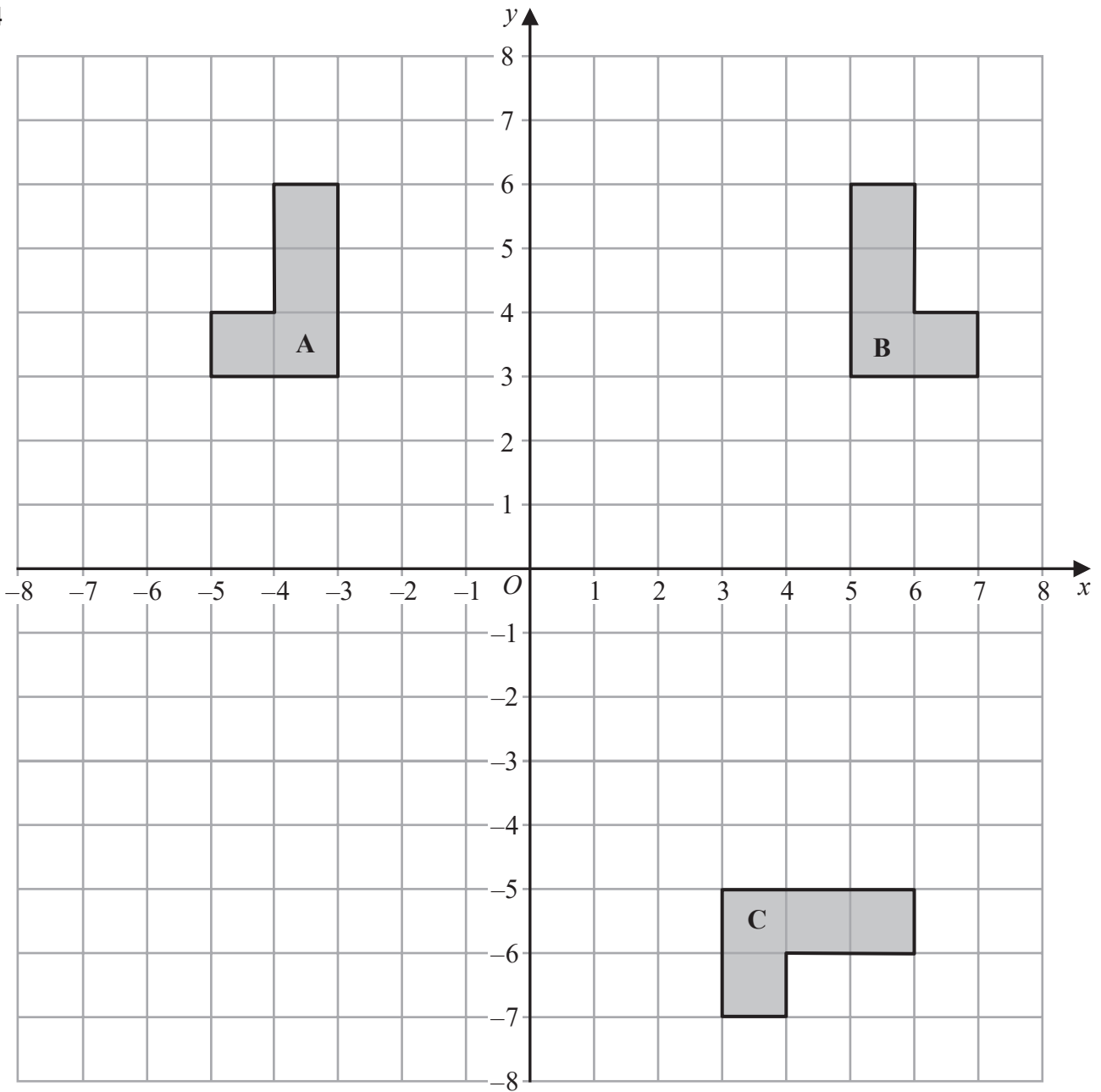
(b) Work out the amount of money the singer will get.

..... dirhams
(3)

(Total for Question 13 is 5 marks)



P 6 6 2 9 5 A 0 1 3 2 4



(a) Describe fully the single transformation that maps shape **A** onto shape **B**.

(2)

(b) Describe fully the single transformation that maps shape **B** onto shape **C**.

(3)

(Total for Question 14 is 5 marks)



- 15 A bag contains 30 coloured counters.
The table gives the number of counters of each colour.

| Colour | Red | Green | Yellow | Blue |
|--------------------|-----|-------|--------|------|
| Number of counters | 7 | 13 | 4 | 6 |

One of the counters is taken at random from the bag.

- (a) Write down the probability that this counter is green.

.....
(1)

- (b) Write down the probability that this counter is **not** red.

.....
(2)

(Total for Question 15 is 3 marks)

- 16 Show that $\frac{5}{6} - \frac{3}{8} = \frac{11}{24}$

(Total for Question 16 is 2 marks)



17 Pieter owns a currency conversion shop.

Last Monday, Pieter changed a total of 20 160 rand into a number of different currencies.

He changed $\frac{3}{10}$ of the 20 160 rand into euros.

He changed the rest of the rands into dollars, rupees and francs in the ratios 9:5:2

Pieter changed more rands into dollars than he changed into francs.

Work out how many more.

..... rand

(Total for Question 17 is 4 marks)



- 18 The table gives information about the speeds, in kilometres per hour, of 80 motorbikes as each pass under a bridge.

| Speed (s kilometres per hour) | Frequency |
|-------------------------------------|-----------|
| $40 < s \leq 50$ | 10 |
| $50 < s \leq 60$ | 16 |
| $60 < s \leq 70$ | 19 |
| $70 < s \leq 80$ | 23 |
| $80 < s \leq 90$ | 12 |

- (a) Write down the modal class.

.....
(1)

- (b) Work out an estimate for the mean speed of the motorbikes as they pass under the bridge.
Give your answer correct to 3 significant figures.

..... kilometres per hour
(4)

(Total for Question 18 is 5 marks)

