



# Conversion - Percentages, Fractions & Decimals

## Question Paper 1

Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Paper Type	Extended
Topic	Number
Sub-Topic	Conversion - Percentages, Fractions & Decimals
Booklet	Question Paper 1

**Time Allowed:** 60 minutes

**Score:** /50

**Percentage:** /100

### Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	60%	45%	35%	25%	<25%

1 Write the recurring decimal  $0.3\dot{2}$  as a fraction.

[ $0.3\dot{2}$  means  $0.3222\dots$ ]

..... [2]

2 Write the recurring decimal  $0.\dot{4}$  as a fraction.  
[ $0.\dot{4}$  means  $0.444\dots$ ]

..... [2]

3 Write the recurring decimal  $0.2\dot{5}$  as a fraction.

[ $0.2\dot{5}$  means  $0.2555\dots$ ]

*Answer* ..... [2]

- 4 Write the recurring decimal  $0.1\dot{5}$  as a fraction.  
[0.15 means 0.1555...]

Answer ..... [2]

- 5 Jason receives some money for his birthday.  
He spends  $\frac{11}{15}$  of the money and has \$14.40 left.

Calculate how much money he received for his birthday.

Answer \$ ..... [3]

www.megalecture.com

- 6 A film company uses 512 actors in a film.  
The actors are in the ratio men : women : children = 7 : 11 : 14.

(a) (i) Show that there are 224 children in the film.

*Answer(a)(i)*

[2]

(ii) Find the number of men in the film.

*Answer(a)(ii)* ..... [1]

(b) Every working day, each child is given \$1 to spend.  
Each child works for 45 days.

Calculate the total amount that the film company gives the children to spend.  
Give your answer correct to the nearest \$100.

*Answer(b)* \$..... [2]

(c) The children have lessons every day in groups of no more than 12.  
Calculate the smallest possible number of groups.

*Answer(c)* ..... [2]

(d) The film costs four million and ninety three thousand dollars to make.

(i) Write this number in figures.

*Answer(d)(i)* ..... [1]

(ii) Write your answer to **part (d)(i)** in standard form.

*Answer(d)(ii)* ..... [1]

(e) A DVD copy of the film costs \$2.75 to make.  
The selling price is \$8.20 .

Calculate the percentage profit.

7 There are three different areas, A, B and C, for seating in a theatre.  
The numbers of seats in each area are in the ratio  $A:B:C = 11:8:7$ .  
There are 920 seats in area B.

(a) (i) Show that there are 805 seats in area C.

*Answer(a)(i)*

[1]

(ii) Write the number of seats in area B as a percentage of the total number of seats.

*Answer(a)(ii)* ..... % [2]

(b) The cost of a ticket for a seat in each area of the theatre is shown in the table.

Area A	\$11.50
Area B	\$15
Area C	\$22.50

For a concert 80% of area B tickets were sold and  $\frac{3}{5}$  of area C tickets were sold.  
The total amount of money taken from ticket sales was \$35 834.

Calculate the number of area A tickets that were sold.

*Answer(b)* ..... [5]

(c) The total ticket sales of \$35 834 was 5% less than the ticket sales at the previous concert.

Calculate the ticket sales at the previous concert.

- 8** At the beginning of July, Kim had a mass of 63 kg.  
At the end of July, his mass was 61 kg.

Calculate the percentage loss in Kim's mass.

*Answer* ..... % [3]

9 In July, a supermarket sold 45 981 bottles of fruit juice.

(a) The cost of a bottle of fruit juice was \$1.35 .

Calculate the amount received from the sale of the 45 981 bottles.  
Give your answer correct to the nearest hundred dollars.

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

(b) The number of bottles sold in July was 17% more than the number sold in January.

Calculate the number of bottles sold in January.

Answer(b) ..... [3]

(c) There were 3 different flavours of fruit juice.

The number of bottles sold in each flavour was in the ratio apple : orange : cherry = 3 : 4 : 2.  
The total number of bottles sold was 45 981.

Calculate the number of bottles of orange juice sold.

Answer(c) ..... [2]

(d) One bottle contains 1.5 litres of fruit juice.

Calculate the number of 330ml glasses that can be filled completely from one bottle.

Answer(d) ..... [3]

(e)  $\frac{5}{9}$  of the 45 981 bottles are recycled.

Calculate the number of bottles that are recycled.

Answer(e) ..... [2]

**10** Work out 72 cents as a percentage of 83 cents.

*Answer* ..... % [1]