



# Conversion - Percentages, Fractions & Decimals

## Mark Scheme 1

Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Paper Type	Extended
Topic	Number
Sub-Topic	Conversion - Percentages, Fractions & Decimals
Booklet	Mark Scheme 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	$\frac{29}{90}$ oe, must be a fraction	2	<b>M1</b> for $32.\dot{2}-3.\dot{2}$ or <b>B1</b> for $\frac{k}{90}$
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2	$\frac{4}{9}$ oe, must be fraction	2	<b>M1</b> for $10 \times 0.\dot{4} - 0.\dot{4}$ oe
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3	$\frac{23}{90}$ oe, must be fraction	2	<b>M1</b> for $25.\dot{5} - 2.\dot{5}$ oe e.g. $2.55^r - 0.25^r$ or <b>B1</b> for $\frac{k}{90}$
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4	$\frac{14}{90}$ oe must be fraction	2	<b>M1</b> for $15.\dot{5} - 1.\dot{5}$ oe or <b>B1</b> for $\frac{k}{90}$
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5	54	3	<b>M2</b> for $14.4 \times \frac{15}{4}$ oe or <b>M1</b> for $14.4 \div 4$ or $\frac{4}{15}$ associated with 14.4 If zero scored <b>SC1</b> for final answer 19.6[4]
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<b>6</b>	<b>(a) (i)</b>	$\frac{512}{7+11+14} \times 14$	<b>M2</b>	or <b>M1</b> for $\frac{512}{7+11+14}$
	<b>(ii)</b>	112	<b>1</b>	
	<b>(b)</b>	10100	<b>2</b>	<b>M1</b> for $224 \times 45$ soi by 10080
	<b>(c)</b>	19	<b>2</b>	<b>M1</b> for $224 \div 12$ soi by 18.66 to 18.67 or 18.7 or $18\frac{2}{3}$
	<b>(d) (i)</b>	4093000	<b>1</b>	
	<b>(ii)</b>	$4.093 \times 10^6$	<b>1FT</b>	<i>their (d)(i)</i>
<b>(e)</b>	198 or 198.1 to 198.2	<b>3</b>	<b>M2</b> for $\frac{8.2-2.75}{2.75} \times 100$ oe or <b>M1</b> for $\frac{8.2}{2.75} \times 100$ or $\frac{8.2-2.75}{2.75}$	

<b>7</b>		3.17 or 3.174 to 3.175	<b>3</b>	<b>M2</b> for $\frac{63-61}{63} \times 100$ oe or $100 - \frac{61}{63} \times 100$ oe  or <b>M1</b> for $\frac{63-61}{63}$ oe or $\frac{61}{63} \times 100$
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<b>8</b>	<b>(a) (i)</b>	$\frac{920}{8} \times 7$ [=805] oe	<b>1</b>	$\frac{2990}{26} \times 7$ [= 805]
	<b>(ii)</b>	30.8 or 30.76 to 30.77	<b>2</b>	<b>M1</b> for $\frac{8}{(11+8+7)}$ [ $\times 100$ ]
	<b>(b)</b>	1211 final answer	<b>5</b>	<b>B4</b> for 13 926.5[0] [area A total sales] or <b>B3</b> for 11 040 [area B] <b>and</b> 10 867.50 [area C] or 21 907.5 [area B + area C] or <b>B2</b> for 11 040 [area B] <b>or</b> 10 867.50 [area C] or <b>M1</b> for 736 [B tickets] and <b>M1</b> for 483 [C tickets]  After 0 scored <b>SC2</b> for answer of 1196 or <b>SC1</b> for 13754 (A total sales)
<b>(c)</b>	37 720	<b>3</b>	<b>M2</b> for $\frac{35834}{0.95}$ oe or <b>M1</b> for 35834 associated with 95[%]	

<b>9</b>	<b>(a)</b>	62100[.00] Final answer	<b>2</b>	<b>B</b> for 62074[. 35] or 62070
	<b>(b)</b>	39300	<b>3</b>	<b>M2</b> for $45981 \div 1.17$ oe <b>or M1</b> for 45981 associated with 117 [%]
	<b>(c)</b>	20436	<b>2</b>	<b>M1</b> for $45981 \div (3+4+2)$ or $45981 \times 4$
	<b>(d)</b>	4	<b>3</b>	<b>M2</b> for $\frac{1.5 \times 1000}{330}$ oe  <b>or M1</b> for figs 4545... or 455
	<b>(e)</b>	25545	<b>2</b>	<b>M1</b> for $45981 \times \frac{5}{9}$

<b>10</b>	86.7 or 86.74 to 86.75	<b>1</b>	
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