Percentage_, fraction and decimal number

1) Convert the fo	ollowing fractions and decim	al numbers into percentage.	
a) 0.25	b) 0.08	c) 1.2	
=	=	=	
d) $^{3}/_{4}$	e) ² / ₅	f) ¹ / ₂	

2) Convert the following percentage into fraction and write give your answer into simplest form.

a) 25%	b) 33%	c) 47.5%
=	=	=
d) 50%	e) 75%	f) 20%
=	=	=
3) Convert the following pa) 5 %	percentage into decimals. b) 26%	c) 17.5%
=	=	=
d) 80 %	e) 120%	f) 28%

Finding a percentage of an amount

Non-calculator method – it is easy to find 10% of an amount by dividing by 10 (10x10%=100%)

5% is half of 10%, 2.5% is half of 5%.

e.g. Find 35% of £60
$$10\% \text{ of } £60 = £60 \div 10 = £6$$
$$30\% \text{ of } £60 = 3 \times 10\% = 3 \times £6 = £18$$
$$5\% \text{ of } £60 = 10\% \div 2 = £6 \div 2 = £3$$
$$\text{so } £35\% \text{ of } £60 = 30\% \text{ of } £60 + 5\% \text{ of } £60$$
$$= £18 + £3 = £21$$

Calculator method: write the percentage as a decimal and multiply

E.g. find 28% of £460 28% of £460 = 0.28 x £460 = £128.80

Calculate the amount after percenta 21) Increase 245 by 25%	ge increase and perce =	ntage decrease.
22) Increase 145 by 12.5%	=	VAT % = 20%
23) Increase 200 by 20%	=	
24) Increase 250 by VAT%	=	
25) Increase 350 by Vat %	=	
26) Decrease 540 by 12.5%	=	
27) Decrease 300 by 48%	=	
28) Decrease 500 by 20 %	=	
29) Decrease 400 by 75 %	=	
30) Decrease 650 by 20 %	=	
=32) The cost of a CD player is £95 player?		
33) Peter wants to buy motorbike , 20% discount on the charismas of discount.	The price of motorbike fer, Calculate how muc	e is £1800, and there was th he have to pay after
=		
34) Andrew got 35 out of 60, how	much percentage he go	ot?
=		
35) Complete the table		5 1
Fraction	Decimal	Percentage
⁹ / ₁₀₀	0.09	
	0.15	15%

⁴/₅

80%