Ch-15 Commercial Arithmetic (Percentage and Profit & Loss)

Points to remember

1) Percent comes from two Latin words 'per centum' which means " per hundred or out of hundred".

2) The symbol for percent is "%".

Self Practice 15B Page No- 209 1. Fill in the blanks. per (a) The word 'per cent' means hundred (b) 32 per cent means 100 (c) $\frac{74}{100}$ is the same as $\frac{74 \circ / \circ}{2}$. (d) The symbol % is the sign for percent 2. Write each of the following as percentage. (a) $\frac{30}{100}$ $\frac{12}{100}$ (e) $\frac{43}{100}$ 100 (b) $\frac{8}{100}$ (c) (f) (d) 100

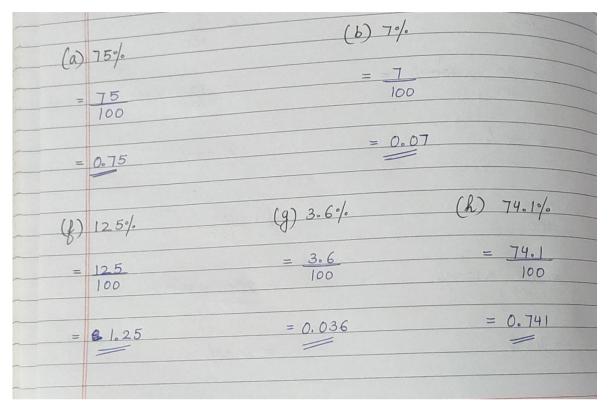
Solution 2:-

C	2) 30	
	100	(C) <u>12</u> 100
	= 30 x 100 % =	= 12 × 100%
	= 30*/.	= 12.%
(e)	<u>43</u> 100	(f) 100 100
e	= <u>43 x+00%</u>	= 100 x+00%
	= 43%	= 100%

In Q2. (b) and (d) are homework

5.	Write each of	the following a	s a de	cimal.		
	(a) 75%	(b) 7%	(c)	1%	(d)	25%
	(e) 90%	(f) 125%	(g)	3.6%	(h)	74.1%

Solution 5:-

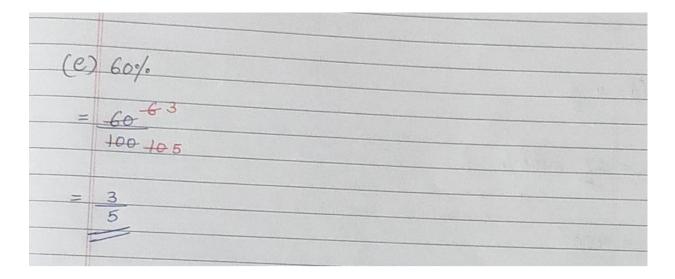


In Q3. (c) , (d) and (e) are homework

 6. Express each of the following as a fraction with lowest terms.
 (a) 44%
 (b) 10%
 (c) 24%
 (d) 96%
 (e) 60%

Solution 6:-

(a) 44%	1
	(C) 24%
- 111-2211	
	- 6 - C
= 44 100 50-25	= <u>24</u> +00- <u>50-25</u>
	100
	100 50 25
= 11	
25	= 6
	25

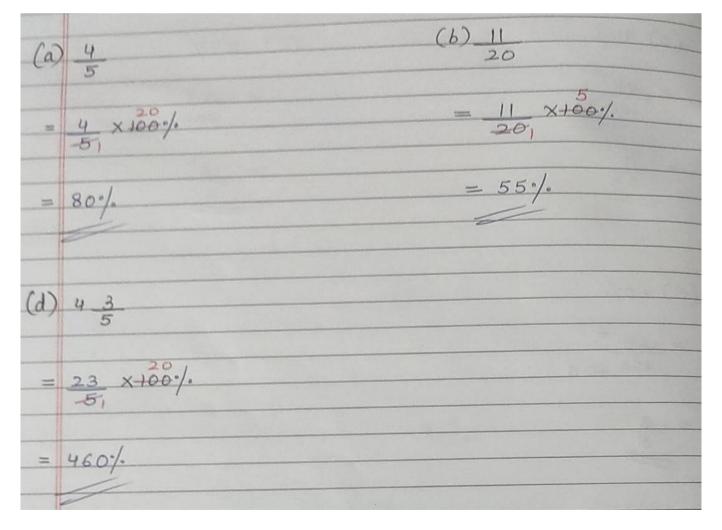


In Q6. (b) and (d) are homework

9. Change each of the following fractions into a percentage.

(a) $\frac{4}{5}$	(b) $\frac{3}{10}$	(c) $\frac{11}{20}$	(d) $4\frac{3}{5}$	(e) $\frac{18}{40}$
-			-	

Solution 9:-



In Q9. (b) and (e) are homework

10. Change each of the following into a percentage.(a) 4(b) 8(c) 1(d) 12(e) 25

Solution 10:-

	(a)	4	 (0) 1	
	=	4 × 100%	= 1 ×100%	
-	=	400%	= 100°/*	
	(e)	25		
	=	25 × 100%		
	=	2500%		

In Q10. (b) and (d) are homework

11. Change each of the following decimals into a percentage.

(a) 1.4	(b)	0.48	(c)	0.05	(d)	3.65	(e)	5.50	(f) 4.05
(g) 0.02	(h)	16.5	(i)	4.03					

Solution 11:-

a) 1.4	(2) 0.05
= 1.4×100%	= 0.05 × 100 %
= 140%	= 5%
(e) 5.50	(A) 16.5
= 5. 50 × 100%	= 16.5 × 100%
= 550 %	= 1650%

Q3, Q4, Q7, Q8 and Q12 are omitted Self Practice-15C is omitted