

Percentages to decimals - Worksheet

Skill

Group A - Percentages to decimals

Write these percentages as decimals:

1) 30%

2) 35%

3) 35.8%

4) 20%

5) 29%

6) 29.4%

7) 70%

8) 73%

9) 73.6%

10) 90%

11) 99%

12) 99.9%

Group B - Decimals to percentages

Write these decimals as percentages:

1) 0.5

2) 0.58

3) 0.584

4) 0.6

5) 0.61

6) 0.618

7) 0.7

8) 0.72

9) 0.729

10) 0.4

11) 0.45

12) 0.451

Group C - Mixed

Write the equivalent decimal/percentage:

1) 1%

2) 102%

3) 120%

4) 4%

5) 104%

6) 140%

7) 0.07

8) 1.07

9) 1.37

10) 0.08

11) 1.08

12) 1.38



Percentages to decimals - Worksheet

Applied

1) (a) A calculator display shows: 0.34672...

Write this as a percentage correct to 1 decimal place.

(b) A calculator display shows: 0.82375...

Write this as a percentage correct to 1 decimal place.

2) (a) A calculator display shows: 0.2

Write this as a percentage correct to 1 decimal place.

(b) A calculator display shows: 0. 6

Write this as a percentage correct to 1 decimal place.

3) (a) A calculator display shows: 0.58

Write this as a percentage correct to 1 decimal place.

(b) A calculator display shows: 0.947

Write this as a percentage correct to 1 decimal place.

- **4)** (a) Fred is calculating a percentage question. He has to work out 35% of £480. He wants to write the percentage as a decimal. What does he write?
 - (b) Sam is calculating a percentage question. They have to work out 103% of £500. They want to write the percentage as a decimal. What do they write?



Percentages to decimals - Exam Questions

1)	(a)	Write 0. 4 as a percentage				%	
	(b)	Write 0.56 as a	a percentage			%	
	(-)	Write 1 2 eg e				(1)	
	(c)	Write 1. 2 as a	percentage			%	
						(1) (3 marks)	
2)		Circle the decir					
		0.1	0.01	0.001	0.0001	(1 mark)	
3)	(a)	Write 70% as	a decimal				
						(1)	
	(b)	Write 32% as a	decimal				
						(1)	
	(c)	Write 113% as	a decimal				
						(1) (3 marks)	
4)		Circle the percentage equivalent to 1.01					
		11%	101%	10.1%	111%	(1 mark)	



Percentages to decimals - Answers

	Question	Answer
	Skill Questions	
Group A	Write these percentages as decimals: 1) 30%	1) 0. 3
	2) 35%	2) 0.35
	3) 35.8%	3) 0.358
	4) 20%	4) 0. 2
	5) 29%	5) 0. 29
	6) 29. 4%	6) 0. 294
	7) 70%	7) 0.7
	8) 73%	8) 0.73
	9) 73.6%	9) 0.736
	10) 90%	10) 0.9
	11) 99%	11) 0.99
	12) 99. 9%	12) 0. 999
Group B	Write these decimals as percentages:	
	1) 0.5	1) 50%
	2) 0.58	2) 58%
	3) 0.584	3) 58.4%
	4) 0. 6	4) 60%
	5) 0. 61	5) 61%
	6) 0. 618	6) 61.8%
	7) 0. 7	7) 70%
	8) 0.72	8) 72%
	9) 0.729	9) 72.9%
	10) 0.4	10) 40%
	11) 0.45	11) 45%
	12) 0.451	12) 45. 1%



Percentages to decimals - Answers

Group C	Write the equivalent fraction / percentage:	
	1) 1%	1) 0.01
	2) 102%	2) 1.02
	3) 120%	3) 1. 20
	4) 4%	4) 0.04
	5) 104%	5) 1. 04
	6) 140%	6) 1.40
	7) 0.07	7) 7%
	8) 1.07	8) 107%
	9) 1.37	9) 137%
	10) 0.08	10) 8%
	11) 1.08	11) 108%
	12) 1.38	12) 138%



Percentages to decimals - Answers

	Qı	uestion	An	Answer	
	Ар	plied Questions			
1)	a)	A calculator display shows 0.34672 Write this as a percentage correct to 1 decimal place.	a)	34.7%	
	b)	A calculator display shows 0.82375 Write this as a percentage correct to 1 decimal place.	b)	82.4%	
2)	a)	A calculator display shows 0. 2 Write this as a percentage correct to 1 decimal place	a)	22. 2%	
	b)	A calculator display shows 0.6 Write this as a percentage correct to 1 decimal place.	b)	66.7%	
3)	a)	A calculator display shows 0.58 Write this as a percentage correct to 1 decimal place.	a)	58.6%	
	b)	A calculator display shows 0.947 Write this as a percentage correct to 1 decimal place.	b)	94.8%	
4)	a)	Fred is calculating a percentage question. He has to work out 35% of £480. He wants to write the percentage as a decimal. What does he write?	a)	0.35	
	b)	Sam is calculating a percentage question. They have to work out 103% of £500. They want to write the percentage as a decimal. What do they write?	b)	1.03	



Percentages to decimals - Mark Scheme

		Question	Answer		
		Exam Questions			
1)	(a)	Write 0. 4 as a percentage	(a) 40% (1)	
	(b)	Write 0.56 as a percentage	(b) 56% (1)	
	(c)	Write 1. 2 as a percentage	(c) 120% (1)	
2)		Circle the decimal equivalent to 0. 1% 0. 1 0. 01 0. 001 0. 0001	0.001)	
3)	(a)	Write 70% as a decimal	(a) 0.7 (1)	
	(b)	Write 32% as a decimal	(b) 0.32)	
	(c)	Write 113% as a decimal.	(c) 1.13 (1)	
4)		Circle the percentage equivalent to 1.01 11% 101% 10.1% 111%	101% (1)	

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