Percentage Profit - Worksheet

Skill

Group A - Percentage profit

Work out the percentage profit:

1) Cost price = £20
Sale price = £25

2) Cost price = £20
Sale price = £28

3) Cost price = £20
Sale price = £35

4) Cost price = £30
Sale price = £36

5) Cost price = £24
Sale price = £36

6) Cost price = £15
Sale price = £36

7) Cost price = £50
Sale price = £60

8) Cost price = £50
Sale price = £70

9) Cost price = £50
Sale price = £85

10) Cost price = £150
Sale price = £210

11) Cost price = £140
Sale price = £210

12) Cost price = £105
Sale price = £210

Group B - Percentage loss

Work out the percentage loss:

1) Cost price = £50
Sale price = £45

2) Cost price = £50
Sale price = £40

3) Cost price = £50
Sale price = £30

4) Cost price = £150
Sale price = £120

5) Cost price = £200
Sale price = £120

6) Cost price = £240
Sale price = £120

7) Cost price = £200
Sale price = £195

8) Cost price = £200
Sale price = £170

9) Cost price = £200
Sale price = £125

10) Cost price = £500
Sale price = £400

11) Cost price = £800
Sale price = £400

12) Cost price = £1000
Sale price = £400

Percentage Profit - Worksheet

Group C - Percentage profit or loss

Work out the percentage profit or loss. State clearly if there is a profit or loss:

1) Cost price = £100
Sale price = £120

2) Cost price = £100
Sale price = £85

3) Cost price = £200
Sale price = £260

4) Cost price = £200
Sale price = £190

5) Cost price = £400
Sale price = £640

6) Cost price = £400
Sale price = £420

7) Cost price = £500
Sale price = £450

8) Cost price = £500
Sale price = £620

9) Cost price = £700
Sale price = £560

10) Cost price = £700
Sale price = £630

11) Cost price = £1000
Sale price = £1300

12) Cost price = £1000
Sale price = £1120

Percentage Profit - Worksheet

Applied

1) **(a)** Rowena bought a van for £11 200. She sold it 2 years later for £12 800.

Calculate Rowena's percentage profit. Give your answer to 3 significant figures.

(b) Tom bought a car for £31 000. He sold it 3 years later for £17 600.

Calculate Tom's percentage loss. Give your answer to 3 significant figures.

2) **(a)** Colin bought a house for £450 000. He sells it for £635 000.

Calculate Colin's percentage profit. Give your answer to 3 significant figures.

(b) Sandra bought a flat for £128 950. She sells it for £99 995.

Calculate Sandra's percentage loss. Give your answer to 3 significant figures.

3) **(a)** Samed buys a pack of 12 cans of cola for £4. 50. He sells the cans for 65p each.

Calculate Samed's percentage profit. Give your answer to 3 significant figures

(b) Fabio buys a pack of 20 cans of lemonade for £9. 50.
He sells half the cans for 95p each and the rest for 55p each.

Calculate Fabio's percentage profit.
Give your answer to 3 significant figures.

Percentage Profit - Exam Questions

1) Aisha bought an antique table for £375. She sold it for £495.

Calculate the percentage profit Aisha makes.

..................%
(3 marks)

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2) Kristel buys an apartment for £265 000. She sells it for £197 500.

Calculate the percentage loss.
Give your answer correct to 3 significant figures.

..................%
(3 marks)

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3) Alex is starting a small business. They buy 50 books for £2. 95 each.

Alex sells 35 of the books for £5 and the rest for £3.

Calculate the percentage profit Alex makes.
Give your answer correct to 3 significant figures.

..................%
(4 marks)

Percentage Profit - Exam Questions

4) Glyn buys 70 shirts for £2. 50 each.
He spends £300 on getting them printed with a design.

He sells 20% of them for £10 each.
He sells half of them for £5 each and the rest for £3.

Calculate the percentage profit or loss, stating clearly if Glyn makes a profit or a loss.

Give your answer correct to 3 significant figures.

……………….%
(6 marks)

Percentage Profit - Answers

	Question	Answer
	Skill Questions	
Group A	Work out the percentage profit: **1)** Cost price = £20, Sale price = £25 **2)** Cost price = £20, Sale price = £28 **3)** Cost price = £20, Sale price = £35 **4)** Cost price = £30, Sale price = £36 **5)** Cost price = £24, Sale price = £36 **6)** Cost price = £15, Sale price = £36 **7)** Cost price = £50, Sale price = £60 **8)** Cost price = £50, Sale price = £70 **9)** Cost price = £50, Sale price = £85 **10)** Cost price = £150, Sale price = £210 **11)** Cost price = £140, Sale price = £210 **12)** Cost price = £105, Sale price = £210	**1)** 25% **2)** 40% **3)** 75% **4)** 20% **5)** 50% **6)** 140% **7)** 20% **8)** 40% **9)** 70% **10)** 40% **11)** 50% **12)** 100%
Group B	Work out the percentage loss: **1)** Cost price = £50, Sale price = £45 **2)** Cost price = £50, Sale price = £40 **3)** Cost price = £50, Sale price = £30 **4)** Cost price = £150, Sale price = £120 **5)** Cost price = £200, Sale price = £120 **6)** Cost price = £240, Sale price = £120 **7)** Cost price = £200, Sale price = £195 **8)** Cost price = £200, Sale price = £170 **9)** Cost price = £200, Sale price = £125 **10)** Cost price = £500, Sale price = £400 **11)** Cost price = £800, Sale price = £400 **12)** Cost price = £1000, Sale price = £400	**1)** 10% **2)** 20% **3)** 40% **4)** 20% **5)** 40% **6)** 50% **7)** 2.5% **8)** 15% **9)** 37.5% **10)** 20% **11)** 50% **12)** 60%

Percentage Profit - Answers

Group C	Work out the percentage profit or loss. State clearly if there is a profit or loss:	
	1) Cost price = £100, Sale price = £120	**1)** profit 20%
	2) Cost price = £100, Sale price = £85	**2)** loss 15%
	3) Cost price = £200, Sale price = £260	**3)** profit 30%
	4) Cost price = £200, Sale price = £190	**4)** loss 5%
	5) Cost price = £400, Sale price = £640	**5)** profit 60%
	6) Cost price = £400, Sale price = £420	**6)** profit 5%
	7) Cost price = £500, Sale price = £450	**7)** loss 10%
	8) Cost price = £500, Sale price = £620	**8)** profit 24%
	9) Cost price = £700, Sale price = £560	**9)** loss 20%
	10) Cost price = £700, Sale price = £630	**10)** loss 10%
	11) Cost price = £1000, Sale price = £1300	**11)** profit 30%
	12) Cost price = £1000, Sale price = £1120	**12)** profit 12%

Percentage Profit - Answers

	Question	Answer
	Applied Questions	
1)	**a)** Rowena bought a van for £11 200. She sold it 2 years later for £12 800. Calculate Rowena's percentage profit. Give your answer to 3 significant figures.	**a)** $\frac{1600}{11200} \times 100 = 14.285...$ $= 14.3\%$
	b) Tom bought a car for £31 000. He sold it 3 years later for £17 600. Calculate Tom's percentage loss. Give your answer to 3 significant figures.	**b)** $\frac{13400}{31000} \times 100 = 43.225...$ $= 43.2\%$
2)	**a)** Colin bought a house for £450 000. He sells it for £635 000. Calculate Colin's percentage profit. Give your answer to 3 significant figures.	**a)** $\frac{185000}{450000} \times 100 = 41.111...$ $= 41.1\%$
	b) Sandra bought a flat for £128 950. She sells it for £99 995 Calculate Sandra's percentage loss. Give your answer to 3 significant figures.	**b)** $\frac{28955}{128950} \times 100 = 22.454...$ $= 22.5\%$
3)	**a)** Samed buys a pack of 12 cans of cola for $£4.50$. He sells the cans for $65p$ each. Calculate Samed's percentage profit. Give your answer to 3 significant figures.	**a)** Selling price: $12 \times £0.65 = £7.80$ Profit: $£7.80 - £4.50 = £3.30$ Percentage profit: $\frac{3.30}{4.50} \times 100 = 73.333... = 73.3\%$
	b) Fabio buys a pack of 20 cans of lemonade for $£9.50$. He sells half the cans $95p$ each and the rest for $55p$ each. Calculate Fabio's percentage profit. Give your answer to 3 significant figures.	**b)** Selling price: $10 \times £0.95 + 10 \times £0.55 = £15$ Profit: $£15 - £9.50 = £5.50$ Percentage profit: $\frac{5.50}{9.50} \times 100 = 57.894... = 57.9\%$

THIRD SPACE LEARNING

Percentage Profit - Mark Scheme

	Question	Answer	
	Exam Questions		
1)	Aisha bought an antique table for £375. She sold it for £495. Calculate the percentage profit Aisha makes.	$495 - 375 = 120$ $\frac{120}{375} \times 100$ 32%	**(1)** **(1)** **(1)**
2)	Kristel buys an apartment for £265 000. She sells it for £197 500. Calculate the percentage loss. Give your answer correct to 3 significant figures.	$265000 - 197500$ $\frac{67500}{265000} \times 100$ $25.47... = 25.5\%$	**(1)** **(1)** **(1)**
3)	Alex is starting a small business. They buy 50 books for £2.95 each. Alex sells 35 of the books for £5 and the rest for £3. Calculate the percentage profit Alex makes.	$50 \times 2.95 = 147.5$ $(35 \times 5) + (15 \times 3) = 220$ $220 - 147.5 = 72.5$ $\frac{72.5}{147.5} \times 100$ $49.152... = 49.2\%$	**(1)** **(1)** **(1)** **(1)** **(1)**
4)	Glyn buys 70 shirts for £2.50 each. He spends £300 on getting them printed with a design. He sells 20% of them for £10 each. He sells half of them for £5 each and the rest for £3. Calculate the percentage profit or loss, stating clearly if Glyn makes a profit or a loss. Give your answer correct to 3 significant figures.	$(70 \times 2.50) + 300 = 475$ $20\% \; of \; 70 = 14$ $(14 \times 10) + (35 \times 5) + (21 \times 3)$ $= 378$ $475 - 378 = 97$ $\frac{97}{475} \times 100 = 20.421...$ 20.4% **and** loss	**(1)** **(1)** **(1)** **(1)** **(1)** **(1)**