THIRD SPACE
LEARNING

Percentage Multiplier - Worksheet

Skill

Group A - Find the decimal multiplier

1) 26%   **2)** 29%   **3)** 39%

4) 54%   **5)** 58%   **6)** 17%

7) 9%   **8)** 4%   **9)** 5%

10) 13.2% **11)** 63.2% **12)** 30.5%

Group B - Calculate

1) 24% of £300   **2)** 56% of £300   **3)** 38% of £300

4) 29% of $500kg$ **5)** 12% of $500kg$ **6)** 59% of $500kg$

7) 37% of $700m$ **8)** 12% of $700m$ **9)** 19% of $700m$

10) 15% of £800   **11)** 22% of £800   **12)** 61% of £800

Group C - Calculate

1) 6% of £320   **2)** 6.7% of £320   **3)** 16.7% of £320

4) 3% of £830   **5)** 3.7% of £830   **6)** 43.7% of £830

7) 7% of £120   **8)** 7.2% of £120   **9)** 37.2% of £120

10) 9% of £650   **11)** 9.3% of £650   **12)** 29.3% of £650

Percentage Multiplier - Worksheet

Applied

1) **(a)** A holiday costs £300.
A 15% deposit is needed.
How much is this?

(b) A holiday costs £1200.
An 18% deposit is needed.
How much is this?

2) **(a)** There are 450 children in a school.
32% of them walk to school.
How many children is this?

(b) There are 780 children in a school.
65% of them take a bus to school.
How many children is this?

3) **(a)** There are 80 marks in a test.
70% is needed to pass the test.
How many marks is this?

(b) There are 60 marks in a test.
80% is needed to pass the test.
How many marks is this?

4) **(a)** A tree is $165cm$ in height.
Its height will increase by 8% over a year.
By how much will its height increase over the year?

(b) A tree is $180cm$ in height.
Its height will increase by 5.5% over a year.
By how much will its height increase over the year?

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Percentage Multiplier - Exam Questions

1)   Calculate 16% of 340kg.   ....

(1 mark)

2)   A holiday costs £845.
A deposit of 17% is required.

How much is the deposit?   ....

(2 marks)

3)   Amelia works for 16 hours a week.
She earns £17 per hour.
She receives a pay increase of 4%.

....
By how much does her new weekly wage increase?   **(3 marks)**

4)   In a test, Section A has 70 marks and Section B has 40 marks.
James scores 60% in Section A and 85% in Section B.
To pass, he needs 70% of the total marks.

Does he pass?   ....
You must show your working.   **(4 marks)**

Percentage Multiplier - Answers

	Question	Answer
	Skill Questions	
Group A	Find the decimal multiplier **1)** 26% **2)** 29% **3)** 39% **4)** 54% **5)** 58% **6)** 17% **7)** 9% **8)** 4% **9)** 5% **10)** 13.2% **11)** 63.2% **12)** 30.5%	**1)** 0.26 **2)** 0.29 **3)** 0.39 **4)** 0.54 **5)** 0.58 **6)** 0.17 **7)** 0.09 **8)** 0.04 **9)** 0.05 **10)** 0.132 **11)** 0.632 **12)** 0.305
Group B	Calculate **1)** 24% of £300 **2)** 56% of £300 **3)** 38% of £300 **4)** 29% of 500kg **5)** 12% of $500kg$ **6)** 59% of $500kg$ **7)** 37% of $700m$ **8)** 12% of $700m$ **9)** 19% of $700m$ **10)** 15% of £800 **11)** 22% of £800 **12)** 61% of £800	**1)** £72 **2)** £168 **3)** £114 **4)** $145kg$ **5)** $60kg$ **6)** $295kg$ **7)** $259m$ **8)** $84m$ **9)** $133m$ **10)** £120 **11)** £176 **12)** £488

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Percentage Multiplier - Answers

Group C	Calculate	
	1) 6% of £320	**1)** £19.20
	2) 6.7% of £320	**2)** £21.44
	3) 16.7% of £320	**3)** £53.44
	4) 3% of £830	**4)** £24.90
	5) 3.7% of £830	**5)** £30.71
	6) 43.7% of £830	**6)** £362.71
	7) 7% of £120	**7)** £8.40
	8) 7.2% of £120	**8)** £8.64
	9) 37.2% of £120	**9)** £44.64
	10) 9% of £650	**10)** £58.50
	11) 9.3% of £650	**11)** £60.45
	12) 29.3% of £650	**12)** £190.45

Percentage Multiplier - Answers

	Question	Answer
	Applied Questions	
1)	**a)** A holiday costs £300 A 15% deposit is needed. How much is this? **b)** A holiday costs £1200. A 18% deposit is needed. How much is this?	**a)** £45 **b)** £216
2)	**a)** There are 450 children in a school. 32% of them walk to school. How many children is this? **b)** There are 780 children in a school. 65% of them take a bus to school. How many children is this?	**a)** 144 children **b)** 507 children
3)	**a)** There are 80 marks in a test. 70% is needed to pass the test. How many marks is this? **b)** There are 60 marks in a test. 80% is needed to pass the test. How many marks is this?	**a)** 56 marks **b)** 48 marks
4)	**a)** A tree is $165cm$ in height. Its height will increase by 8% over a year. By how much will its height increase over the year? **b)** A tree is $180cm$ in height. Its height will increase by 5.5% over a year. By how much will its height increase over the year?	**a)** $13.2cm$ **b)** $9.9cm$

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Percentage Multiplier - Mark Scheme

	Question	Answer	
	Exam Questions		
1)	Calculate 16% of $340kg$.	$54.4kg$	**(1)**
2)	A holiday costs £845. A deposit of 17% is required. How much is the deposit?	0.17×845 $£143.65$	**(1)** **(1)**
3)	Amelia works for 16 hours a week. She earns £17 per hour. She receives a pay increase of 4%. By how much does her new weekly wage increase?	16×17 272×0.04 $£10.88$	**(1)** **(1)** **(1)**
4)	In a test, Section A has 70 marks and Section B has 40 marks. James scores 60% in Section A and 85% in Section B. To pass, he needs 70% of the total marks. Does he pass? You must show your working.	$70 \times 0.6 = 42$ **or** $40 \times 0.85 = 34$ $42 + 34 = 76$ $110 \times 0.7 = 77$ for No and 76 and 77	 **(1)** **(1)** **(1)** **(1)**