

# Arithmetic – Multiplying Percentages by Whole Numbers

## Teaching Information:

These questions have been taken from the KS2 Arithmetic test to help your children practise specific question types.

## National Curriculum Objectives:

Mathematics Year 5: (5F11) [Recognise the per cent symbol \(%\) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal](#)

Mathematics Year 5: (5F12) [Solve problems which require knowing percentage and decimal equivalents of  \$\frac{1}{2}\$ ,  \$\frac{1}{4}\$ ,  \$\frac{1}{5}\$ ,  \$\frac{2}{5}\$ ,  \$\frac{4}{5}\$  and those fractions with a denominator of a multiple of 10 or 25](#)

Mathematics Year 6: (6F11) [Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts](#)

Mathematics Year 6: (6F9b) [Multiply one-digit numbers with up to two decimal places by whole numbers](#)

Mathematics Year 6: (6R2) [Solve problems involving the calculation of percentages \[for example, of measures, and such as 15% of 360\] and the use of percentages for comparison](#)

## Differentiation:

**Introduction** Multiply 10% by whole numbers, which are multiples of 10. Aimed at below Year 5 Developing.

**Beginner** Multiply simple percentages (25%, 50%, 75%) by whole numbers. Aimed at Year 5 Developing.

**Easy** Multiply simple percentages (20%, 40%, 60%, 80%) by whole numbers. Aimed at Year 5 Expected.

**Tricky** Multiply simple percentages (multiples of 10%) by whole numbers. Aimed at Year 5 Greater Depth.

**Expert** Multiply percentages (multiples of 5%) by whole numbers. Aimed at Year 6 Developing.

**Brainbox** Multiply any percentage by a whole number. Aimed at Year 6 Expected.

**Genius** Multiply any percentage by a whole number (involving some decimal answers.) Aimed at Year 6 Greater Depth.

More [Arithmetic](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

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## Arithmetic – Multiplying Percentages by Whole Numbers

1

$10\% \times 20 =$

2

$10\% \times 50 =$

3

$10\% \times 100 =$

## Arithmetic – Multiplying Percentages by Whole Numbers

4

$$10\% \times 130 = \boxed{\phantom{000}}$$

5

$$10\% \times 90 = \boxed{\phantom{000}}$$

6

$$10\% \times 250 = \boxed{\phantom{000}}$$

# Arithmetic – Multiplying Percentages by Whole Numbers

7

$10\% \times 210 = \boxed{\phantom{000}}$

8

$10\% \times 70 = \boxed{\phantom{000}}$

9

$10\% \times 190 = \boxed{\phantom{000}}$

## Arithmetic – Multiplying Percentages by Whole Numbers

10

$10\% \times 420 =$

11

$10\% \times 260 =$

12

$10\% \times 500 =$

## Arithmetic – Multiplying Percentages by Whole Numbers

1

$25\% \times 32 = \boxed{\phantom{000}}$

2

$50\% \times 120 = \boxed{\phantom{000}}$

3

$75\% \times 40 = \boxed{\phantom{000}}$

## Arithmetic – Multiplying Percentages by Whole Numbers

4

$$75\% \times 24 = \boxed{\phantom{000}}$$

5

$$25\% \times 36 = \boxed{\phantom{000}}$$

6

$$50\% \times 250 = \boxed{\phantom{0000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

7

$$50\% \times 500 = \boxed{\phantom{000}}$$

8

$$75\% \times 120 = \boxed{\phantom{000}}$$

9

$$25\% \times 28 = \boxed{\phantom{000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

10

$25\% \times 80 =$

11

$50\% \times 180 =$

12

$75\% \times 48 =$

## Arithmetic – Multiplying Percentages by Whole Numbers

1

$$20\% \times 50 = \boxed{\phantom{000}}$$

2

$$80\% \times 70 = \boxed{\phantom{000}}$$

3

$$40\% \times 400 = \boxed{\phantom{000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

4

$$60\% \times 90 = \boxed{\phantom{000}}$$

5

$$20\% \times 160 = \boxed{\phantom{000}}$$

6

$$40\% \times 300 = \boxed{\phantom{000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

7

$$60\% \times 500 = \boxed{\phantom{000}}$$

8

$$80\% \times 110 = \boxed{\phantom{000}}$$

9

$$20\% \times 240 = \boxed{\phantom{000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

10

$20\% \times 250 =$

11

$40\% \times 150 =$

12

$60\% \times 600 =$

## Arithmetic – Multiplying Percentages by Whole Numbers

1

$$30\% \times 40 = \boxed{\phantom{000}}$$

2

$$70\% \times 120 = \boxed{\phantom{000}}$$

3

$$90\% \times 1,000 = \boxed{\phantom{000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

4

$80\% \times 90 =$

5

$30\% \times 150 =$

6

$70\% \times 110 =$

# Arithmetic – Multiplying Percentages by Whole Numbers

7

$$30\% \times 800 = \boxed{\phantom{000}}$$

8

$$40\% \times 2,000 = \boxed{\phantom{000}}$$

9

$$90\% \times 60 = \boxed{\phantom{00}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

10

$70\% \times 300 =$

11

$90\% \times 120 =$

12

$30\% \times 250 =$

## Arithmetic – Multiplying Percentages by Whole Numbers

1

$$15\% \times 200 = \boxed{\phantom{000}}$$

2

$$35\% \times 3,000 = \boxed{\phantom{000}}$$

3

$$5\% \times 320 = \boxed{\phantom{000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

4

$$45\% \times 120 = \boxed{\phantom{000}}$$

5

$$15\% \times 3,000 = \boxed{\phantom{000}}$$

6

$$95\% \times 80 = \boxed{\phantom{000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

7

$$15\% \times 800 = \boxed{\phantom{0000}}$$

8

$$85\% \times 2,000 = \boxed{\phantom{0000}}$$

9

$$35\% \times 1,200 = \boxed{\phantom{0000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

10

$35\% \times 60 =$

11

$15\% \times 1,400 =$

12

$5\% \times 1,500 =$

## Arithmetic – Multiplying Percentages by Whole Numbers

1

$$32\% \times 1,250 = \boxed{\phantom{0000}}$$

2

$$65\% \times 1,620 = \boxed{\phantom{0000}}$$

3

$$3\% \times 4,700 = \boxed{\phantom{0000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

4

$$15\% \times 1,360 = \boxed{\phantom{0000}}$$

5

$$17\% \times 3,000 = \boxed{\phantom{0000}}$$

6

$$8\% \times 2,250 = \boxed{\phantom{0000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

7

$$4\% \times 8,050 = \boxed{\phantom{00000}}$$

8

$$12\% \times 4,025 = \boxed{\phantom{00000}}$$

9

$$24\% \times 1,875 = \boxed{\phantom{00000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

10

$$14\% \times 4,850 = \boxed{\phantom{00000}}$$

11

$$48\% \times 2,475 = \boxed{\phantom{00000}}$$

12

$$89\% \times 9,000 = \boxed{\phantom{00000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

1

$$38\% \times 1,175 = \boxed{\phantom{00000}}$$

2

$$8\% \times 2,820 = \boxed{\phantom{00000}}$$

3

$$13\% \times 1,125 = \boxed{\phantom{00000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

4

$$17\% \times 2,050 = \boxed{\phantom{0000}}$$

5

$$11\% \times 4,160 = \boxed{\phantom{0000}}$$

6

$$26\% \times 3,025 = \boxed{\phantom{0000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

7

$$14\% \times 1,825 = \boxed{\phantom{0000}}$$

8

$$27\% \times 1,450 = \boxed{\phantom{0000}}$$

9

$$18\% \times 2,825 = \boxed{\phantom{0000}}$$

## Arithmetic – Multiplying Percentages by Whole Numbers

10

$$37\% \times 1,150 = \boxed{\phantom{00000}}$$

11

$$78\% \times 1,025 = \boxed{\phantom{00000}}$$

12

$$39\% \times 4,550 = \boxed{\phantom{00000}}$$

# Arithmetic – Multiplying Percentages by Whole Numbers

## Introduction

- |       |       |       |        |
|-------|-------|-------|--------|
| 1. 2  | 4. 13 | 7. 21 | 10. 42 |
| 2. 5  | 5. 9  | 8. 7  | 11. 26 |
| 3. 10 | 6. 25 | 9. 19 | 12. 50 |

## Beginner

- |       |        |        |        |
|-------|--------|--------|--------|
| 1. 8  | 4. 18  | 7. 250 | 10. 20 |
| 2. 60 | 5. 9   | 8. 90  | 11. 90 |
| 3. 30 | 6. 125 | 9. 7   | 12. 36 |

## Easy

- |        |        |        |         |
|--------|--------|--------|---------|
| 1. 10  | 4. 54  | 7. 300 | 10. 50  |
| 2. 56  | 5. 32  | 8. 88  | 11. 60  |
| 3. 160 | 6. 120 | 9. 48  | 12. 360 |

## Tricky

- |        |       |        |         |
|--------|-------|--------|---------|
| 1. 12  | 4. 72 | 7. 240 | 10. 210 |
| 2. 84  | 5. 45 | 8. 800 | 11. 108 |
| 3. 900 | 6. 77 | 9. 54  | 12. 75  |

## Expert

- |          |        |          |         |
|----------|--------|----------|---------|
| 1. 30    | 4. 54  | 7. 120   | 10. 21  |
| 2. 1,050 | 5. 450 | 8. 1,700 | 11. 210 |
| 3. 16    | 6. 76  | 9. 420   | 12. 75  |

## Brainbox

- |          |        |        |           |
|----------|--------|--------|-----------|
| 1. 400   | 4. 204 | 7. 322 | 10. 679   |
| 2. 1,053 | 5. 510 | 8. 483 | 11. 1,188 |
| 3. 141   | 6. 180 | 9. 450 | 12. 8,010 |

## Genius

- |           |          |          |             |
|-----------|----------|----------|-------------|
| 1. 446.5  | 4. 348.5 | 7. 255.5 | 10. 425.5   |
| 2. 225.6  | 5. 457.6 | 8. 391.5 | 11. 799.5   |
| 3. 146.25 | 6. 786.5 | 9. 508.5 | 12. 1,774.5 |

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Multiplying Percentages by Whole Numbers **ANSWERS**