

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.

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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

$10\% \times 130 =$

5

$10\% \times 90 =$

6

$10\% \times 250 =$

Arithmetic – Multiplying Percentages by Whole Numbers

7

$10\% \times 210 =$

8

$10\% \times 70 =$

9

$10\% \times 190 =$

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

$25\% \times 32 =$

2

$50\% \times 120 =$

3

$75\% \times 40 =$

Arithmetic – Multiplying Percentages by Whole Numbers

4

$75\% \times 24 =$

5

$25\% \times 36 =$

6

$50\% \times 250 =$

Arithmetic – Multiplying Percentages by Whole Numbers

7

$50\% \times 500 =$

8

$75\% \times 120 =$

9

$25\% \times 28 =$

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

$20\% \times 50 =$

2

$80\% \times 70 =$

3

$40\% \times 400 =$

Arithmetic – Multiplying Percentages by Whole Numbers

4

$60\% \times 90 =$

5

$20\% \times 160 =$

6

$40\% \times 300 =$

Arithmetic – Multiplying Percentages by Whole Numbers

7

$60\% \times 500 =$

8

$80\% \times 110 =$

9

$20\% \times 240 =$

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

$30\% \times 40 =$

2

$70\% \times 120 =$

3

$90\% \times 1,000 =$

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

$30\% \times 800 =$

8

$40\% \times 2,000 =$

9

$90\% \times 60 =$

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

$15\% \times 200 =$

2

$35\% \times 3,000 =$

3

$5\% \times 320 =$

Arithmetic – Multiplying Percentages by Whole Numbers

4

$45\% \times 120 =$

5

$15\% \times 3,000 =$

6

$95\% \times 80 =$

Arithmetic – Multiplying Percentages by Whole Numbers

7

$15\% \times 800 =$

8

$85\% \times 2,000 =$

9

$35\% \times 1,200 =$

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

$$32\% \times 1,250 =$$

2

$$65\% \times 1,620 =$$

3

$$3\% \times 4,700 =$$

Arithmetic – Multiplying Percentages by Whole Numbers

4

$15\% \times 1,360 =$

5

$17\% \times 3,000 =$

6

$8\% \times 2,250 =$

Arithmetic – Multiplying Percentages by Whole Numbers

7

$4\% \times 8,050 =$

8

$12\% \times 4,025 =$

9

$24\% \times 1,875 =$

Arithmetic – Multiplying Percentages by Whole Numbers

10

$$14\% \times 4,850 =$$

11

$$48\% \times 2,475 =$$

12

$$89\% \times 9,000 =$$

Arithmetic – Multiplying Percentages by Whole Numbers

1

$$38\% \times 1,175 =$$

2

$$8\% \times 2,820 =$$

3

$$13\% \times 1,125 =$$

Arithmetic – Multiplying Percentages by Whole Numbers

4

$$17\% \times 2,050 =$$

5

$$11\% \times 4,160 =$$

6

$$26\% \times 3,025 =$$

Arithmetic – Multiplying Percentages by Whole Numbers

7

$14\% \times 1,825 =$

8

$27\% \times 1,450 =$

9

$18\% \times 2,825 =$

Arithmetic – Multiplying Percentages by Whole Numbers

10

$$37\% \times 1,150 =$$

11

$$78\% \times 1,025 =$$

12

$$39\% \times 4,550 =$$

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**