

# Multiplying/dividing by 10/multiples of 10



Hundreds of Thousands	Tens of Thousands	Thousands	Hundreds	Tens	Units	•	Tenths	Hundredths	Thousandths
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## Outcome 1 - Multiplying by 10

**Examples...**      **\*\*To multiply by 10... move all digits up ONE place value\*\***

$$34 \times 10 = 340$$

$$10 \times 270 = 2700$$

$$9275 \times 10 = 92\,750$$

## Questions...

- |                       |                        |
|-----------------------|------------------------|
| 1 $3 \times 10$       | 2 $10 \times 7$        |
| 3 $83 \times 10$      | 4 $10 \times 45$       |
| 5 $780 \times 10$     | 6 $601 \times 10$      |
| 7 $10 \times 4567$    | 8 $8954 \times 10$     |
| 9 $53\,945 \times 10$ | 10 $10 \times 23\,830$ |

## Outcome 2 - Dividing by 10

**Examples...**      **\*\*To divide by 10... move all digits down ONE place value\*\***

$$420 \div 10 = 42$$

$$6900 \div 10 = 690$$

$$28\,000 \div 10 = 2800$$

## Questions...

- |                      |                       |
|----------------------|-----------------------|
| 1 $50 \div 10$       | 2 $80 \div 10$        |
| 3 $400 \div 10$      | 4 $640 \div 10$       |
| 5 $8300 \div 10$     | 6 $3690 \div 10$      |
| 7 $74\,000 \div 10$  | 8 $46\,000 \div 10$   |
| 9 $506\,000 \div 10$ | 10 $634\,000 \div 10$ |

## Outcome 3 - Multiplying by multiples of 10

**Examples...**      **\*\*  $\times 10$ , then  $\times 2$  \*\***

$\begin{array}{r} 24 \times 20 \\ 24 \times 20 \\ \times 20 \\ \hline 480 \end{array}$ <p>Add a zero!</p> <p><math>= 480</math></p>	$\begin{array}{r} 532 \times 30 \\ 532 \times 30 \\ \times 30 \\ \hline 15960 \end{array}$ <p>Add a zero!</p> <p><math>= 15\,960</math></p>
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**\*\*  $\times 10$ , then  $\times 3$  \*\***

## Questions...

- |                    |                     |
|--------------------|---------------------|
| 1 $4 \times 80$    | 2 $6 \times 50$     |
| 3 $24 \times 20$   | 4 $30 \times 53$    |
| 5 $63 \times 80$   | 6 $60 \times 79$    |
| 7 $354 \times 70$  | 8 $456 \times 30$   |
| 9 $8975 \times 90$ | 10 $6423 \times 40$ |

## Outcome 4 - Dividing by multiples of 10

**Examples...**      **\*\*  $\div 10$ , then  $\div 9$  \*\***

$$4500 \div 90 = 50$$

$$63\,000 \div 70 = 900$$

**\*\*  $\div 10$ , then  $\div 7$  \*\***

## Questions...

- |                     |                      |
|---------------------|----------------------|
| 1 $900 \div 30$     | 2 $420 \div 60$      |
| 3 $480 \div 20$     | 4 $640 \div 80$      |
| 5 $5400 \div 90$    | 6 $3500 \div 50$     |
| 7 $2400 \div 80$    | 8 $2400 \div 40$     |
| 9 $27\,000 \div 30$ | 10 $36\,000 \div 60$ |

## Outcome 1 Answers

- |    |         |     |         |
|----|---------|-----|---------|
| 1. | 30      | 2.  | 70      |
| 3. | 830     | 4.  | 450     |
| 5. | 7800    | 6.  | 6010    |
| 7. | 45 670  | 8.  | 89 540  |
| 9. | 539 450 | 10. | 238 300 |

## Outcome 2 Answers

- |    |        |     |        |
|----|--------|-----|--------|
| 1. | 5      | 2.  | 8      |
| 3. | 40     | 4.  | 64     |
| 5. | 830    | 6.  | 369    |
| 7. | 7400   | 8.  | 4600   |
| 9. | 50 600 | 10. | 63 400 |

## Outcome 3 Answers

- |    |         |     |         |
|----|---------|-----|---------|
| 1. | 320     | 2.  | 300     |
| 3. | 480     | 4.  | 1590    |
| 5. | 5040    | 6.  | 4740    |
| 7. | 24 780  | 8.  | 13 860  |
| 9. | 807 750 | 10. | 256 920 |

## Outcome 4 Answers

- |    |     |     |     |
|----|-----|-----|-----|
| 1. | 30  | 2.  | 7   |
| 3. | 24  | 4.  | 8   |
| 5. | 60  | 6.  | 70  |
| 7. | 30  | 8.  | 60  |
| 9. | 900 | 10. | 600 |