

Outcome 3 - Multiplying by Multiples of 10, 100 & 1000

Bronze examples

Examples... **** × 10, then × 9 ****

$$\begin{array}{r} 38 \\ \times 90 \\ \hline 3420 \\ \hline \end{array}$$

Add a zero!
= 3420

**** × 10, then × 4 ****

$$\begin{array}{r} 473 \\ \times 40 \\ \hline 18920 \\ \hline \end{array}$$

Add a zero!
= 18920

Silver examples

Examples... **** × 100, then × 7 ****

$$\begin{array}{r} 400 \times 700 \\ 4 \times 7 = 28 \\ \text{Add FOUR zero's!} \\ = 280\,000 \end{array}$$

**** × 100, then × 8 ****

$$\begin{array}{r} 900 \times 8000 \\ 9 \times 8 = 72 \\ \text{Add FIVE zero's!} \\ = 7\,200\,000 \end{array}$$

Gold examples

Examples... **** × 10, then × 3 ****

$$0.6 \times 30 = 18$$

**** × 10, then × 3 ****

$$0.058 \times 700 = 40.6$$

**** × 100, then × 7 ****

$$\begin{array}{r} 5.8 \\ \times 7 \\ \hline 40.6 \\ \hline \end{array}$$

Hundreds of Thousands	Tens of Thousands	Thousands	Hundreds	Tens	Units	•	Tenths	Hundredths	Thousandths
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Bronze Questions

- 1 5×70
- 2 9×40
- 3 46×30
- 4 80×75
- 5 64×90
- 6 40×38
- 7 589×20
- 8 962×60
- 9 2538×70
- 10 8472×90

Silver Questions

- 1 60×50
- 2 80×30
- 3 300×70
- 4 20×900
- 5 80×4000
- 6 6000×30
- 7 700×700
- 8 9000×300
- 9 600×9000
- 10 2000×7000

Gold Questions

- 1 0.9×20
- 2 80×0.4
- 3 0.07×30
- 4 60×0.002
- 5 0.09×900
- 6 0.24×200
- 7 500×0.067
- 8 800×0.0027
- 9 0.053×7000
- 10 0.0089×3000

Bronze Answers

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|----|---------|-----|---------|
| 1. | 350 | 2. | 360 |
| 3. | 1380 | 4. | 6000 |
| 5. | 5760 | 6. | 1520 |
| 7. | 11 780 | 8. | 57 720 |
| 9. | 177 660 | 10. | 762 480 |

Silver Answers

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|----|-----------|-----|------------|
| 1. | 3000 | 2. | 2400 |
| 3. | 21 000 | 4. | 18 000 |
| 5. | 320 000 | 6. | 180 000 |
| 7. | 490 000 | 8. | 2 700 000 |
| 9. | 5 400 000 | 10. | 14 000 000 |

Gold Answers

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|----|------|-----|------|
| 1. | 18 | 2. | 32 |
| 3. | 2·1 | 4. | 0·12 |
| 5. | 81 | 6. | 48 |
| 7. | 33·5 | 8. | 2·16 |
| 9. | 371 | 10. | 26·7 |