Decimals × 10, 100 or 1,000

Name _____ Date _____

Multiply the whole-number versions. Restore the decimal places, then check the size.

Q1 0.06 × 100

6
× 100

Total decimal places: _____

Product: _____

How many places does each digit move?

Q2 17.8 × 10

178
× 10

Total decimal places: _____

Product: _____

How many places does each digit move?

Q3 0.58 × 1000

58
× 1000

Total decimal places: _____

Product: _____

How many places does each digit move?

Q4 10.7 × 100

107
× 100

Total decimal places: _____

Product: _____

How many places does each digit move?

Q5 1.89 × 10

189
× 10

Total decimal places: _____

Product: _____

How many places does each digit move?

Q6 16.7 × 1000

167
× 1000

Total decimal places: _____

Product: _____

How many places does each digit move?

Q7 1.41 × 100

141
× 100

Total decimal places: _____

Product: _____

How many places does each digit move?

Q8 2.7 × 10

27
× 10

Total decimal places: _____

Product: _____

How many places does each digit move?

Decimals × 10, 100 or 1,000

Check the digit calculation and the size of the product separately.

Multiply the whole-number versions. Restore the decimal places, then check the size.

Q1 0.06 × 100

```
   6
× 100
-----
 600
```

Places: 2 + 0 = 2

With all places: 6.00

Also written 6

Each digit moves 2 places to the left.

Q2 17.8 × 10

```
 178
×  10
-----
1780
```

Places: 1 + 0 = 1

With all places: 178.0

Also written 178

Each digit moves 1 place to the left.

Q3 0.58 × 1000

```
  58
× 1000
------
58000
```

Places: 2 + 0 = 2

With all places: 580.00

Also written 580

Each digit moves 3 places to the left.

Q4 10.7 × 100

```
 107
× 100
-----
10700
```

Places: 1 + 0 = 1

With all places: 1070.0

Also written 1070

Each digit moves 2 places to the left.

Q5 1.89 × 10

```
 189
×  10
-----
1890
```

Places: 2 + 0 = 2

With all places: 18.90

Also written 18.9

Each digit moves 1 place to the left.

Q6 16.7 × 1000

```
 167
× 1000
------
167000
```

Places: 1 + 0 = 1

With all places: 16700.0

Also written 16700

Each digit moves 3 places to the left.

Q7 1.41 × 100

```
 141
× 100
-----
14100
```

Places: 2 + 0 = 2

With all places: 141.00

Also written 141

Each digit moves 2 places to the left.

Q8 2.7 × 10

```
  27
×  10
-----
 270
```

Places: 1 + 0 = 1

With all places: 27.0

Also written 27

Each digit moves 1 place to the left.