Decimals × whole numbers

Name _____ Date _____

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

Q1 4 × 0.08

4
× 8

Total decimal places: _____

Product: _____

Compare the product with the first factor.

Q2 6.3 × 8

6 3
× 8

Total decimal places: _____

Product: _____

Compare the product with the first factor.

Q3 3 × 0.54

3
× 5 4

Total decimal places: _____

Product: _____

Compare the product with the first factor.

Q4 4.2 × 8

4 2
× 8

Total decimal places: _____

Product: _____

Compare the product with the first factor.

Q5 7 × 0.06

7
× 6

Total decimal places: _____

Product: _____

Compare the product with the first factor.

Q6 6.0 × 6

6 0
× 6

Total decimal places: _____

Product: _____

Compare the product with the first factor.

Q7 5 × 0.75

5
× 7 5

Total decimal places: _____

Product: _____

Compare the product with the first factor.

Q8 1.8 × 8

1 8
× 8

Total decimal places: _____

Product: _____

Compare the product with the first factor.

Decimals × whole numbers

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 4 × 0.08

4
× 8
32

Places: 0 + 2 = 2

With all places: 0.32

0.08 < 1, so the product is less than 4.

Q2 6.3 × 8

63
× 8
504

Places: 1 + 0 = 1

With all places: 50.4

8 > 1, so the product is greater than 6.3.

Q3 3 × 0.54

3
× 54
162

Places: 0 + 2 = 2

With all places: 1.62

0.54 < 1, so the product is less than 3.

Q4 4.2 × 8

42
× 8
336

Places: 1 + 0 = 1

With all places: 33.6

8 > 1, so the product is greater than 4.2.

Q5 7 × 0.06

7
× 6
42

Places: 0 + 2 = 2

With all places: 0.42

0.06 < 1, so the product is less than 7.

Q6 6.0 × 6

60
× 6
360

Places: 1 + 0 = 1

With all places: 36.0

Also written 36

6 > 1, so the product is greater than 6.0.

Q7 5 × 0.75

5
× 75
375

Places: 0 + 2 = 2

With all places: 3.75

0.75 < 1, so the product is less than 5.

Q8 1.8 × 8

18
× 8
144

Places: 1 + 0 = 1

With all places: 14.4

8 > 1, so the product is greater than 1.8.