

# Multiplying and Dividing Decimals: math test solutions, Grade 5 – download the PDF

Test solutions with the detailed point scale. Add up your points and spot what to review.

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

## 1 Powers of 10

/ 4 pts

- a.  $6.28 \times 10 = 62.8$  (1 pt)
- b.  $0.053 \times 100 = 5.3$  (1 pt)
- c.  $9.4 \div 100 = 0.094$  (1 pt)
- d.  $2,700 \div 1,000 = 2.7$  (1 pt)

## 2 Multiplying decimals

/ 4 pts

- a.  $26 \times 7 = 182$ , one place:  $18.2$  (1 pt)
- b.  $45 \times 6 = 270$ , two places:  $2.70 = 2.7$  (1 pt)
- c.  $12 \times 8 = 96$ , two places:  $0.96$  (1 pt)
- d.  $35 \times 4 = 140$ , three places:  $0.140 = 0.14$  (1 pt)

### 3 Place the decimal point

/ 3 pts

- a.  $1 + 1 = 2$  places: **10.81** (1 pt)
- b.  $2 + 0 = 2$  places: **10.81** (1 pt)
- c.  $1 + 3 = 4$  places: **0.1081** (1 pt)

### 4 Division

/ 3 pts

- a.  $18.4 \div 4 = 4.6$ , since  $4.6 \times 4 = 18.4$  (1 pt)
- b. **54** hundredths  $\div 6 = 9$  hundredths, so **0.09** (1 pt)
- c.  $15 \div 0.3 = 150 \div 3 = 50$  (1 pt)

### 5 Area model

/ 3 pts

Shade a rectangle that is 4 squares wide and 8 squares tall (1 pt). It contains  $4 \times 8 = 32$  little squares (1 pt). Each square is 0.01, so  $0.4 \times 0.8 = 0.32$  (1 pt).

### 6 Training for a race

/ 3 pts

- a.  $1.75 \times 6 = 10.5$  miles (1 pt)
- b.  $12 - 10.5 = 1.5$  miles (1 pt)
- c.  $1.5 \div 3 = 0.5$  mile each day (1 pt)



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