

Multi-Digit and Decimal Operations: math test solutions, Grade 6 – 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 Whole-number operations

/ 4 pts

- (a) $63 \times 8 = 504$ and $63 \times 40 = 2,520$; the product is **3,024**. (1 pt)
- (b) $31 \times 228 = 7,068$, so the quotient is 228. (2 pts)
- (c) $36 \times 27 = 972$ and $1,000 - 972 = 28$: the quotient is 27 and the remainder is 28. (1 pt)

2 Adding and subtracting decimals

/ 3 pts

- (a) $18.60 + 7.45 = 26.05$. (1 pt)
- (b) $30.000 - 12.875 = 17.125$. (1 pt)
- (c) $4.20 + 0.38 = 4.58$, then $4.58 - 2.90 = 1.68$. (1 pt)

3 Multiplying and dividing decimals

/ 4 pts

(a) $28 \times 35 = 980$, 3 decimal places: **0.98**. (1 pt)

(b) $72 \div 90 = 0.8$. (1 pt)

(c) $156 \div 12 = 13$. (1 pt)

(d) $55 \times 4 = 220$, 3 decimal places: **0.22**. (1 pt)

4 Estimation

/ 3 pts

(a) $20 \times 4 = 80$ (the exact product is 81.18). (1 pt)

(b) $60 \div 6 = 10$. (1 pt)

(c) $6 \times 0.8 = 4.8$, so the product should be close to 5, not 49.6. Correct: $62 \times 8 = 496$, 2 decimal places: **4.96**. (1 pt)

5 Hiking club budget

/ 3 pts

Bottles: $24 \times 1.85 = 44.40$. (1 pt)

Kits: $2 \times 12.95 = 25.90$; total $44.40 + 25.90 = 70.30$. (1 pt)

Left: $75 - 70.30 = 4.70$. The club has 4.70 dollars left. (1 pt)

6 Ribbon

/ 3 pts

(a) $2.4 \div 0.15 = 240 \div 15 = 16$ pieces. (1 pt)

(b) $4.80 \div 2.4 = 2$ dollars per meter. (1 pt)

(c) $4.80 \div 16 = 0.30$ dollars, or $0.15 \times 2 = 0.30$ dollars. (1 pt)



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