

Percents: 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 Conversions

/ 4 pts

(a) 64 squares, so $64\% = 0.64$. (1 pt)

(b) $\frac{3}{20} = \frac{15}{100} = 15\%$. (1 pt)

(c) $0.6 = 0.60 = 60\%$. (1 pt)

(d) $175\% = 1.75$. (1 pt)

2 Ordering

/ 3 pts

Convert to decimals: 0.7 ; $65\% = 0.65$; $\frac{2}{3} \approx 0.667$; $\frac{3}{4} = 0.75$. (2 pts)

Order: $65\% < \frac{2}{3} < 0.7 < \frac{3}{4}$. (1 pt)

3 Percent of a quantity

/ 4 pts

- (a) $0.3 \times 90 = 27$. (1 pt)
- (b) $10\% = 14$ and $5\% = 7$, so **21**. (1 pt)
- (c) $0.05 \times 62 = 3.1$. (1 pt)
- (d) $1.25 \times 48 = 60$. (1 pt)

4 Finding the whole

/ 3 pts

- (a) **40%** is 4 of 10 parts. One part is $32 \div 4 = 8$, so the budget is $10 \times 8 = 80$ dollars. (2 pts)
- (b) **90%** is 9 parts, so one part is $27 \div 9 = 3$ and the number is 30. (1 pt)

5 A backpack on sale

/ 3 pts

- (a) $0.25 \times 48 = 12$ dollars. (1 pt)
- (b) $48 - 12 = 36$ dollars. (1 pt)
- (c) You pay $100\% - 25\% = 75\%$. Check: $\frac{36}{48} = 0.75$. (1 pt)

6 Comparing scores

/ 3 pts

Kai: $\frac{42}{50} = \frac{84}{100} = 84\%$. (1 pt)

Rue: $33 \div 40 = 0.825 = 82.5\%$. (1 pt)

84% > 82.5%, so Kai earned the greater percent. (1 pt)



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