

Grade 6 · Percents · Test Answer Key

Common Core 6.RP.A.3c · mathovore.fr

This answer key gives worked solutions and a scoring guide for every question on the Grade 6 percents test. Points are given for the correct method, accurate computation, and a clear final answer. Partial credit is explained in each scoring note.

Grade 6 Common Core: 6.RP.A.3c

Question 1: Fraction and percent (2 points)

(a) $45\% = \frac{45}{100} = \frac{9}{20}$.

(b) $\frac{7}{25} = \frac{28}{100} = 28\%$.

(a) $\frac{9}{20}$. (b) 28%.

Scoring: 1 point for each correct answer. In part (a), the fraction must be in simplest form.

Question 2: Decimal and fraction to percent (2 points)

(a) $0.06 \times 100 = 6$, so 6%.

(b) $3 \div 8 = 0.375$, and $0.375 \times 100 = 37.5$, so 37.5%.

(a) 6%. (b) 37.5%.

Scoring: 1 point for each correct percent.

Question 3: Percent of a number (2 points)

(a) $0.35 \times 80 = 28$.

(b) $0.12 \times 150 = 18$.

(a) 28. (b) 18.

Scoring: 1 point for each correct answer.

Question 4: Test score (3 points)

(a) $42 \div 60 = 0.70$, which is 70%.

(b) $0.90 \times 60 = 54$ points.

(a) 70%. (b) 54 points.

Scoring: (a) 1 point for dividing part by whole, 1 point for 70%. (b) 1 point for 54.

6	6	6	6	6	6	6	6	6	6
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9 parts of 6 points is 54 points, which is 90%.

Question 5: Walking to school (3 points)

(a) 40% of the students is 18, so $18 \div 0.40 = 45$ students.

(b) $0.20 \times 45 = 9$ students.

(a) 45 students. (b) 9 students.

Scoring: (a) 1 point for a correct method (for example, $10\% = 4.5$ or dividing by 0.40), 1 point for 45. (b) 1 point for 9; accept follow-through from part (a).

4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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10% of 45 is 4.5, so 40% is 18 students.

Question 6: Sneaker sale (3 points)

(a) $0.30 \times 85 = 25.50$, so the discount is \$25.50.

(b) $85 - 25.50 = 59.50$, so the sale price is \$59.50.

(c) $100\% - 30\% = 70\%$.

(a) \$25.50. (b) \$59.50. (c) 70%.

Scoring: 1 point for each correct part. Accept follow-through in (b) and (c).

Question 7: Lunch survey (3 points)

(a) Pizza: $0.45 \times 80 = 36$. Tacos: $0.30 \times 80 = 24$.

(b) Salad: $100\% - 45\% - 30\% = 25\%$.

Check: 25% of 80 is 20, and $36 + 24 + 20 = 80$.

(a) 36 pizza, 24 tacos. (b) 25%.

Scoring: (a) 1 point for each correct count. (b) 1 point for 25%.

Question 8: Ordering numbers (2 points)

Write each as a decimal: $65\% = 0.65$, 0.7 stays 0.70, and $\frac{3}{4} = 0.75$.

Order: $0.65 < 0.70 < 0.75$.

65% , 0.7, $\frac{3}{4}$.

Scoring: 1 point for converting all three to the same form correctly, 1 point for the correct order. Accept follow-through if one conversion is wrong but the order matches it.

Total
20 points