



New York State Testing Program

Mathematics Test

Grade **6**

2009 Scoring Guide

28

Jenny picked 25 roses. She gave away 10 roses. What percent of the roses did Jenny give away?

Show your work.

Answer _____ %

QUESTION 28

STRAND 1: NUMBER SENSE AND OPERATIONS

Complete and Correct Response:

- $\frac{10}{25} = \frac{2}{5} = 0.4 = 40\%$

OR other valid process

AND

- 40 (%)

Score Points:

Apply 2-point holistic rubric.

28

Jenny picked 25 roses. She gave away 10 roses. What percent of the roses did Jenny give away?

Show your work.

$$\frac{10 \times 4}{25 \times 4} = \frac{40}{100} \text{ or } \underbrace{.40}_{40\%} \quad 40\%$$

Answer 40 %

This response is complete and correct.

Score Point 2

28

Jenny picked 25 roses. She gave away 10 roses. What percent of the roses did Jenny give away?

Show your work.

$$\frac{10}{25}$$

$$25 \overline{) 10.00} = 40\%$$

Handwritten long division showing 25 dividing 10.00 to get 0.40, which is then converted to 40%.

Answer 40 %

This response is complete and correct.

Score Point 2

28

Jenny picked 25 roses. She gave away 10 roses. What percent of the roses did Jenny give away?

Show your work.

$$\frac{10}{25} \times 4 = \frac{40}{100}$$

Answer 40 %

This response is only partially correct. A sound mathematical procedure for finding the percent of roses given away is demonstrated; however, an incorrect mathematical statement is provided, and the bridging step is missing.

Score Point 1

28

Jenny picked 25 roses. She gave away 10 roses. What percent of the roses did Jenny give away?

Show your work.

Answer 4 %

Handwritten work showing calculations:

$$\frac{25}{10} = 2.5$$
$$\frac{10}{25} \times 4 = \frac{40}{25} = 1.6$$
$$\frac{10}{25} \times 100 = 40$$
$$\frac{10}{25} = 0.4$$
$$25 \overline{) 10.0}$$

This response is only partially correct. A sound mathematical procedure is demonstrated for finding the percent of roses given away; however, the incorrect division of 100 by 25 results in an incorrect answer.

Score Point 1

28

Jenny picked 25 roses. She gave away 10 roses. What percent of the roses did Jenny give away?

Show your work.

$$\begin{array}{r} 10 \overline{) 25} \\ \underline{20} \\ 5 \end{array}$$

Answer 20 %

This response is incorrect.

Score Point 0



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2009 Practice Set

28

Jenny picked 25 roses. She gave away 10 roses. What percent of the roses did Jenny give away?

Show your work.

5, 10, 15, 20, 25
20, 40, 60, 80, 100

Answer 40 %

28

Jenny picked 25 roses. She gave away 10 roses. What percent of the roses did Jenny give away?

Show your work.

$$\frac{10}{25} \times \frac{n}{100}$$

Answer 40 %

$$\frac{1000}{25} = \frac{25n}{25}$$

$$n = 40$$

$$\begin{array}{r} 40 \\ 25 \overline{) 1000} \\ \underline{-100} \\ 000 \end{array}$$

28

Jenny picked 25 roses. She gave away 10 roses. What percent of the roses did Jenny give away?

Show your work.

$$\begin{array}{r} 10 \times 4\% \\ \hline 25 \overline{) 1.00} \\ - 1.00 \\ \hline 000 \end{array}$$

Answer 4 %

28

Jenny picked 25 roses. She gave away 10 roses. What percent of the roses did Jenny give away?

Show your work.

$$\frac{10}{25} = \frac{x}{100}$$

Answer 40 %

28

Jenny picked 25 roses. She gave away 10 roses. What percent of the roses did Jenny give away?

Show your work.

Answer 25 %

$$\frac{25}{100} = \frac{x}{10}$$

$$\frac{250}{100} = \frac{10x}{100}$$

$$\begin{array}{r} 25 \\ \times 10 \\ \hline 250 \end{array}$$

$$\begin{array}{r} 25 \cancel{) 25.0} \\ 10 \overline{) 25.0} \\ \underline{20} \\ 50 \\ \underline{50} \\ 0 \end{array}$$

6th GRADE MATHEMATICS

Name: _____

PRACTICE SET ANSWER KEY

| | | |
|-------|-------|--|
| PS 1 | (0-2) | |
| PS 2 | (0-2) | |
| PS 3 | (0-2) | |
| PS 4 | (0-2) | |
| PS 5 | (0-2) | |
| PS 6 | (0-2) | |
| PS 7 | (0-2) | |
| PS 8 | (0-2) | |
| PS 9 | (0-2) | |
| PS 10 | (0-2) | |
| PS 11 | (0-2) | |
| PS 12 | (0-2) | |
| PS 13 | (0-2) | |
| PS 14 | (0-2) | |
| PS 15 | (0-2) | |
| PS 16 | (0-2) | |
| PS 17 | (0-2) | |
| PS 18 | (0-2) | |
| PS 19 | (0-2) | |
| PS 20 | (0-2) | |
| PS 21 | (0-2) | |
| PS 22 | (0-2) | |
| PS 23 | (0-2) | |
| PS 24 | (0-2) | |
| PS 25 | (0-2) | |

| | | |
|-------|-------|--|
| PS 26 | (0-2) | |
| PS 27 | (0-2) | |
| PS 28 | (0-2) | |
| PS 29 | (0-2) | |
| PS 30 | (0-2) | |
| PS 31 | (0-3) | |
| PS 32 | (0-3) | |
| PS 33 | (0-3) | |
| PS 34 | (0-3) | |
| PS 35 | (0-3) | |
| PS 36 | (0-3) | |
| PS 37 | (0-3) | |
| PS 38 | (0-3) | |
| PS 39 | (0-3) | |
| PS 40 | (0-3) | |
| PS 41 | (0-3) | |
| PS 42 | (0-3) | |
| PS 43 | (0-3) | |
| PS 44 | (0-3) | |
| PS 45 | (0-3) | |
| PS 46 | (0-3) | |
| PS 47 | (0-3) | |
| PS 48 | (0-3) | |
| PS 49 | (0-3) | |
| PS 50 | (0-3) | |