New York State Testing Program

Mathematics Test

Grade 7

2009 Scoring Guide

32 Jan buys 12 pens for $10. Each pen costs the same amount of money. Write a proportion to find the number of pens Jan can buy for $15. Then solve your proportion for the number of pens.

Show your work.

Answer _____ pens

QUESTION 32

STRAND 2: ALGEBRA

Complete and Correct Response:

- $\frac{12}{10} = \frac{x}{15}$

  $10x = (12)(15)$
  $10x = 180$
  $x = 18$

  OR other valid process

AND

- 18 (pens)

Score Points:

Apply 2-point holistic rubric.

32 Jan buys 12 pens for $10. Each pen costs the same amount of money. Write a proportion to find the number of pens Jan can buy for $15. Then solve your proportion for the number of pens.

Show your work.

$\frac{12 \text{ pens}}{\$10} = \frac{x \text{ pens}}{\$15}$

$15 \times 12 = 10x$

$\frac{180}{10} = \frac{10x}{10}$

$18 = x$

Check

$\frac{12}{10} \overset{180}{\overset{\checkmark}{=}} \frac{18}{15}$ 180

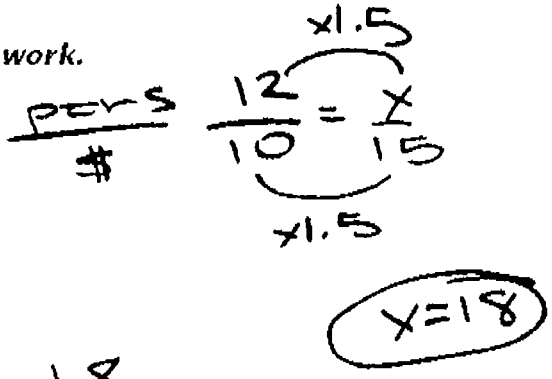
Answer 18 pens

This response is complete and correct.

Score Point 2

32 Jan buys 12 pens for $10. Each pen costs the same amount of money. Write a proportion to find the number of pens Jan can buy for $15. Then solve your proportion for the number of pens.

Show your work.



Answer 18 pens

This response is complete and correct.

Score Point 2

32 Jan buys 12 pens for $10. Each pen costs the same amount of money. Write a proportion to find the number of pens Jan can buy for $15. Then solve your proportion for the number of pens.

Show your work.

$10 \overline{)12}$

$\times \begin{array}{r} 15 \\ 1.2 \\ \hline 18. \end{array}$

Answer 18 pens

This response is only partially correct. Although valid work is shown to arrive at the correct answer, the proportion must be shown in order to demonstrate a thorough understanding of the task.

Score Point 1

32 Jan buys 12 pens for $10. Each pen costs the same amount of money. Write a proportion to find the number of pens Jan can buy for $15. Then solve your proportion for the number of pens.

Show your work.

12
10
+ 15
37
18

Answer 18 pens

This response is only partially correct. The correct answer is provided; however, the correct work is not shown.

Score Point 1

32 Jan buys 12 pens for $10. Each pen costs the same amount of money. Write a proportion to find the number of pens Jan can buy for $15. Then solve your proportion for the number of pens.

Show your work.

12+10+15 =$37

Answer $37.00 pens

This response is incorrect.

Score Point 0

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Mathematics Test

Grade 7

2009 Practice Set

32 Jan buys 12 pens for $10. Each pen costs the same amount of money. Write a proportion to find the number of pens Jan can buy for $15. Then solve your proportion for the number of pens.

Show your work.

$\frac{12}{10} = \frac{x}{15}$

$12 \cdot 15 = 180$

Answer 18 pens

32 Jan buys 12 pens for $10. Each pen costs the same amount of money. Write a proportion to find the number of pens Jan can buy for $15. Then solve your proportion for the number of pens.

Show your work.

$\frac{12}{10} = \frac{18}{15}$

Answer 18 pens

32 Jan buys 12 pens for $10. Each pen costs the same amount of money. Write a proportion to find the number of pens Jan can buy for $15. Then solve your proportion for the number of pens.

Show your work.

$\frac{x}{12} = \frac{15}{10} = \frac{10x}{10} = \frac{180}{10} = 18$

Answer 18 pens

32 Jan buys 12 pens for $10. Each pen costs the same amount of money. Write a proportion to find the number of pens Jan can buy for $15. Then solve your proportion for the number of pens.

Show your work.

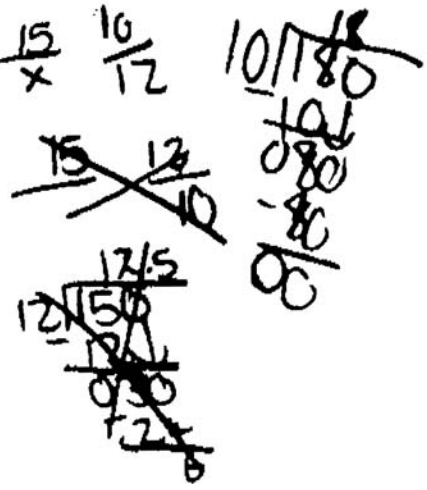
1.2
10)12

1.2
× 10
12

Answer 1.2 pens

32 Jan buys 12 pens for $10. Each pen costs the same amount of money. Write a proportion to find the number of pens Jan can buy for $15. Then solve your proportion for the number of pens.

Show your work. $180 \div 10x$ $\frac{15}{x} \quad \frac{10}{12}$



Answer 18 pens

7th 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	(0-3)	
PS 22	(0-3)	
PS 23	(0-3)	
PS 24	(0-3)	
PS 25	(0-3)	
PS 26	(0-3)	
PS 27	(0-3)	
PS 28	(0-3)	
PS 29	(0-3)	
PS 30	(0-3)	
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)	