



# ***New York State Testing Program***

## **Mathematics Test**

Grade **8**

**2009 Scoring Guide Part 1**

**31**

Mustafa buys a book that costs \$12.50. If the sales tax is 8%, what is the total cost of the book?

***Show your work.***

***Answer*** \$ \_\_\_\_\_

**QUESTION 31**

**STRAND 1: NUMBER SENSE AND OPERATIONS**

*Complete and Correct Response:*

- $$\begin{array}{r} 12.50 \\ \times .08 \\ \hline 1.00 \end{array}$$

$$\begin{array}{r} 12.50 \\ + 1.00 \\ \hline 13.50 \end{array}$$

OR other valid process

**AND**

- (\$)13.50

*Score Points:*

Apply 2-point holistic rubric.

31

Mustafa buys a book that costs \$12.50. If the sales tax is 8%, what is the total cost of the book?

Show your work.

$$\begin{array}{r} 12.5 \\ \times 0.08 \\ \hline 1000 \\ 0000 \\ \hline 1.000 \end{array}$$

$$\begin{array}{r} 12.50 \\ + 1.00 \\ \hline 13.50 \end{array}$$

$$8\% = .08$$

Answer \$ 13.50

This response is complete and correct.

Score Point 2

31

Mustafa buys a book that costs \$12.50. If the sales tax is 8%, what is the total cost of the book?

Show your work.

$$\begin{aligned} \text{part} &= \% \text{ whole} \\ X &= 1.08(12.50) \\ X &= \$13.50 \end{aligned}$$

Answer \$ 13.50

This response is complete and correct.

Score Point 2

31

Mustafa buys a book that costs \$12.50. If the sales tax is 8%, what is the total cost of the book?

*Show your work.*

$$\frac{15}{0.08} = \frac{90}{100} \quad \frac{1}{1250} = \frac{8}{100} = \frac{100}{100x} = x \geq 1$$

Answer \$ 13.50

This response is only partially correct. A correct answer and sound mathematical procedure are provided; however, the work shown contains an incorrect mathematical statement.

Score Point 1

- 31 Mustafa buys a book that costs \$12.50. If the sales tax is 8%, what is the total cost of the book?

Show your work.

Answer \$ 12.62

$$\begin{array}{r} 12.50 \\ \times .08 \\ \hline .12 \\ \hline 12.50 \\ + .12 \\ \hline 12.62 \end{array}$$

8%

This response is only partially correct. A sound mathematical procedure is provided; however, a calculation error results in an incorrect answer.

Score Point 1

- 31 Mustafa buys a book that costs \$12.50. If the sales tax is 8%, what is the total cost of the book?

Show your work.

$$\begin{aligned} \frac{8\%}{100} &= \frac{x}{12.50} \\ 100x &= 12.50(8) \\ \frac{100x}{100} &= \frac{100}{100} \\ x &= 1 \\ \text{Answer } \$ & \underline{1.00} \end{aligned}$$

This response is only partially correct. A correct initial procedure of calculating the sales tax is demonstrated; however, the remaining work is missing.

Score Point 1

31

Mustafa buys a book that costs \$12.50. If the sales tax is 8%, what is the total cost of the book?

*Show your work.*

$$\begin{array}{r} \times 12.50 \\ \quad .8 \\ \hline 10 \end{array}$$

Answer \$ 10

This response is incorrect.

Score Point 0



# ***New York State Testing Program***

## **Mathematics Test**

Grade **8**

**2009 Practice Test**



31

Mustafa buys a book that costs \$12.50. If the sales tax is 8%, what is the total cost of the book?

*Show your work.*

$$\begin{array}{r} 12.50 \\ \% 8 \\ \hline 1 \end{array}$$

Answer \$ 1

31

Mustafa buys a book that costs \$12.50. If the sales tax is 8%, what is the total cost of the book?

*Show your work.*

$$\begin{array}{r} 12.50 \\ + \quad 8 \\ \hline 13.30 \end{array}$$

Answer \$ 13.30

31

Mustafa buys a book that costs \$12.50. If the sales tax is 8%, what is the total cost of the book?

Show your work.

New	X	108
change		8.1
orig	12.50	100

$$\frac{X}{12.50} = \frac{108}{100}$$

Answer \$ 13.50

**31**

Mustafa buys a book that costs \$12.50. If the sales tax is 8%, what is the total cost of the book?

*Show your work.*

$$12.5 \times .08 = 1$$
$$12.5 + 1 = 13.5$$

Answer \$ 13.5

# 8<sup>th</sup> GRADE MATHEMATICS

Name: \_\_\_\_\_

## PRACTICE SET ANSWER KEY

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

PS 26	(0-3)	3
PS 27	(0-3)	1
PS 28	(0-3)	0
PS 29	(0-3)	1
PS 30	(0-3)	2
PS 31	(0-2)	1
PS 32	(0-2)	0
PS 33	(0-2)	2
PS 34	(0-2)	2
PS 35	(0-2)	1
PS 36	(0-2)	1
PS 37	(0-2)	2
PS 38	(0-2)	1
PS 39	(0-2)	1
PS 40	(0-2)	2
PS 41	(0-2)	1
PS 42	(0-2)	0
PS 43	(0-2)	2
PS 44	(0-2)	2
PS 45	(0-2)	1
PS 46	(0-2)	0
PS 47	(0-2)	2
PS 48	(0-2)	1
PS 49	(0-2)	2
PS 50	(0-2)	1

