

MCAS Mathematics - Grade 8 - Week of May 4

Question 2: Multiple-Choice

Reporting Category: Number Sense and Operations

Standard: 8.N.2



Between which two consecutive integers on the number line does $\sqrt{11}$ lie?

- A. 3 and 4
 - B. 5 and 6
 - C. 11 and 12
 - D. 22 and 23
-

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Question 4: Multiple-Choice

Reporting Category: Number Sense and Operations

Standard: 8.N.4



The minimum distance from Neptune to Earth is about 2.68 billion miles. What is 2.68 billion written in scientific notation?

- A. 2.68×10^6
 - B. 2.68×10^7
 - C. 2.68×10^9
 - D. 2.68×10^{10}
-

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Question 5: Multiple-Choice

Reporting Category: Number Sense and Operations

Standard: 8.N.6



What is the value of the expression below?

$$|15| + |-10|$$

- A. -25
 - B. -5
 - C. 5
 - D. 25
-

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Question 11: Multiple-Choice
Reporting Category: Number Sense and Operations
Standard: 8.N.5



Mr. Lee has one mathematics class with 16 students and one with 24 students. He wants to divide each class into groups with the same number of students in each group. What is the greatest number of students Mr. Lee can have in each group?

- A. 2
 - B. 4
 - C. 6
 - D. 8
-

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Question 12: Multiple-Choice
Reporting Category: Number Sense and Operations
Standard: 8.N.8



Which of the following is equivalent to the expression below?

$$3(1.50) + 3(2.50)$$

- A. $3(1.50 + 2.50)$
- B. $3(1.50)(2.50)$

- C. $3(1.50 + 3)2.50$
D. $3(3) + (1.50)(2.50)$
-

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Question 15: Multiple-Choice
Reporting Category: Number Sense and Operations
Standard: 8.N.9



Which of the following is equivalent to the expression below?

$$\frac{2}{3} \div \frac{3}{4}$$

A. $\frac{2}{3} \div \frac{4}{3}$

B. $\frac{2}{3} \cdot \frac{4}{3}$

C. $\frac{3}{2} \div \frac{3}{4}$

D. $\frac{3}{2} \cdot \frac{3}{4}$

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Question 18: Multiple-Choice
Reporting Category: Number Sense and Operations
Standard: 8.N.7



What is the value of the expression below?

$$\sqrt{36} + 13 \cdot 2$$

- A. 32
 - B. 38
 - C. 62
 - D. 98
-

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Question 20: Short-Answer

Reporting Category: Number Sense and Operations

Standard: 8.N.10



Mr. Johnson noted that $\frac{3}{8}$ of the students at his school were in the band. He also noted that $\frac{1}{2}$ of the students in the band were girls. What fractional part of the students at the school were girls in the band?

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Question 24: Multiple-Choice

Reporting Category: Number Sense and Operations

Standard: 8.N.3



Tuan answered 20 customer service calls in 3 hours. At this rate, how many customer service calls can Tuan answer in 7.5 hours?

- A. 45
 - B. 50
 - C. 60
 - D. 80
-

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Question 28: Open-Response

Reporting Category: Number Sense and Operations

Standard: 8.N.3



A florist sells bouquets of carnations. He creates bouquets of different sizes by using 4 white carnations for every 3 pink carnations in a bouquet.

- a. Write a proportion that can be used to find p , the number of pink carnations in a bouquet with w white carnations.
- b. What is the number of pink carnations in a bouquet with 16 white carnations? Show or explain how you got your answer.
- c. The florist made a bouquet with a total of 35 carnations in it.
 - What is the total number of pink carnations in the bouquet?
 - What is the total number of white carnations in the bouquet?

Show or explain how you got your answers.

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