

Middle School Mathematics Diagnostic Test – FALL 2001

Please print:

NAME _____ CLASS _____

TEACHER _____ SCHOOL _____

**Calculator use on this test is not allowed.
SHOW ALL WORK FOR EACH PROBLEM!**

1. $123 + 350 + 27 =$

Answer

2. $12.526 - 6.52 =$

Answer

3. $54 \times 10.7 =$

Answer

4. $789 \div 9 =$

Answer

SHOW ALL YOUR WORK!

5. $2\frac{1}{6} - \frac{1}{3} =$

Answer

6. $6.24 \times 10,000 =$

Answer

7. $2\frac{1}{4} \div \frac{3}{5} =$

Answer

8. How can three million, four hundred sixty-five thousand be written as a numeral?

Answer

A) 3000000465000

B) 3465000

C) 3000465

D) 346500

9. What is the next number in the pattern shown below?

Answer

21, 17, 13, ?

10. Which of the following is **NOT** true about 250?

Answer

A) It is one-fourth of 1000.

B) It is one-half of 500.

C) It is 10 times 25.

D) It is 25 times 100.

SHOW ALL YOUR WORK!

11. What is the greatest common factor of 12 and 28?

Answer

12. John was born in 1975. When he was 23 years old he decided to go to college. Seven years later he started his own business. Which expression below would you use to find out what year John started his business?

A) $1975 + 23 + 7$

C) $1975 + 23 - 7$

B) $1975 - 23 - 7$

D) $1975 - 23 + 7$

Answer

13. Which of the following is closest to 1 but not equal to or greater than 1?

A) $\frac{20}{22}$

C) $\frac{22}{22}$

B) $\frac{21}{22}$

D) $\frac{23}{22}$

Answer

14. Which has the greatest value?

A) $\frac{1}{3}$

C) 0.31

B) 30%

D) They are all exactly the same value

Answer

15. A garden snail can travel about 5 feet in 2 **minutes**. At that speed, how far can the snail travel in 1½ **hours**?

A) 45 feet

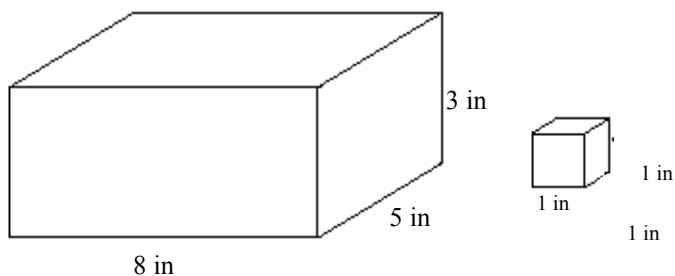
B) 90 feet

C) 180 feet

D) 225 feet

Answer

16. How many 1-in. cubes will completely fill the carton shown?



Answer

17. What number belongs in the box to make the number sentence true?

Answer

$$\frac{4}{10} = \frac{\boxed{}}{15}$$

18. Skates cost \$69.95 and the sales tax is 5%. How much will you have to pay for a pair of skates?

Answer

Middle School Mathematics Diagnostic Test – SPRING 2002

Please print:

NAME _____ **CLASS** _____

TEACHER _____ **SCHOOL** _____

**Calculator use on this test is not allowed.
SHOW ALL WORK FOR EACH PROBLEM!**

1. $126 + 340 + 34 =$

Answer

2. $12.526 - 5.52 =$

Answer

3. $54 \times 10.9 =$

Answer

4. $789 \div 5 =$

Answer

SHOW ALL YOUR WORK!

5. $2\frac{1}{6} - \frac{1}{3} =$

Answer

6. $6.24 \times 10,000 =$

Answer

7. $2\frac{1}{4} \div \frac{3}{5} =$

Answer

8. How can three million, four hundred sixty-five thousand be written as a numeral?

Answer

A) 3000000465000

B) 3465000

C) 3000465

D) 346500

9. What is the next number in the pattern shown below?

Answer

32, 26, 20, ?

10. Which of the following is **NOT** true about 250?

Answer

A) It is one-fourth of 1000.

B) It is one-half of 500.

E) It is 10 times 25.

F) It is 25 times 100.

SHOW ALL YOUR WORK!

11. What is the greatest common factor of 20 and 28?

Answer

12. John was born in 1975. When he was 22 years old he decided to go to college. Seven years later he started his own business. Which expression below would you use to find out what year John started his business?

A) $1975 + 22 + 7$

C) $1975 + 22 - 7$

B) $1975 - 22 - 7$

D) $1975 - 22 + 7$

Answer

13. Which of the following is closest to 1 but not equal to or greater than 1?

A) $\frac{20}{22}$

C) $\frac{22}{22}$

B) $\frac{21}{22}$

D) $\frac{23}{22}$

Answer

14. Which has the greatest value: $\frac{1}{3}$, 30%, 0.31?

A) $\frac{1}{3}$

C) 0.31

B) 30%

D) They are all exactly the same value

Answer

15. A garden snail can travel about 5 feet in 2 **minutes**. At that speed, how far can the snail travel in 1½ **hours**?

A) 45 feet

B) 90 feet

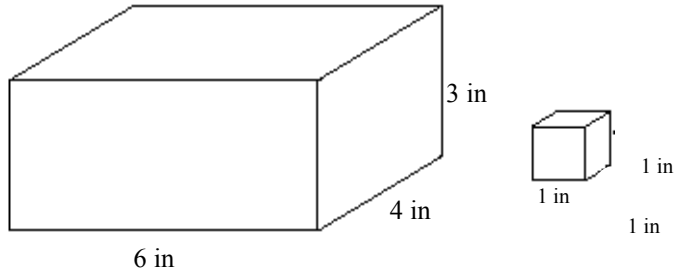
C) 180 feet

D) 225 feet

Answer

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16. How many 1-in. cubes will completely fill the carton shown?



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