Math for Elementary Education Pretest: Practice Form

7/25/09

This test is to be taken **without** the aid of a calculator.

1. What is the place value of the digit 9 in the number 497.083?

   a) 9 tenths b) ten c) 90 d) 9

2. Round 496.08784 to the nearest hundredth.

   a) .09 b) 500 c) 496.09 d) not given

3. $\frac{3}{4}+\frac{-5}{3}=$

   a) $\frac{-2}{7}$ b) $\frac{-11}{12}$ c) $-2\frac{5}{12}$ d) not given

4. $2\frac{1}{8}-1\frac{5}{6}=$

   a) $\frac{7}{24}$ b) $1\frac{17}{24}$ c) $1\frac{4}{2}$ d) $\frac{6}{2}$

5. $^{-}1\frac{3}{8}\cdot 5=$

   a) $^{-}5\frac{3}{8}$ b) $\frac{55}{8}$ c) $^{-}2\frac{7}{8}$ d) not given

6. $\frac{5}{6}\div 3=$

   a) $\frac{5}{18}$ b) $2\frac{1}{2}$ c) $\frac{5}{8}$ d) $\frac{5/3}{2}$

7. $2-4(12)=$

   a) –24 b) 46 c) –46 d) 24

8. $15.045 + 0.07 =$

a) 15.052 b) 15.11 c) 15.115 d) not given

9. $0.3 - 1.025 =$

a) 0.725 b) -1.275 c) 1.022 d) -0.725

10. $-1.72 \cdot (-0.04) =$

a) 6.88 b) -6.88 c) -0.0068 d) not given

11. $0.15 \div 0.3 =$

a) 0.5 b) 0.02 c) 2 d) 0.05

12. Convert 0.24 to a lowest-terms fraction.

a) $\frac{24}{100}$ b) $\frac{0.24}{100}$ c) $\frac{6}{25}$ d) $\frac{12}{5}$

13. Convert $\frac{5}{6}$ to a decimal.

a) 0.15 b) $0.8\overline{3}$ c) 0.56 d) not given

14. Convert $\frac{17}{1000}$ to a decimal.

a) 0.017 b) 0.0017 c) 0.17000 d) 17.000

15. Convert $\frac{33}{12}$ to a mixed numeral in simplest form.

a) $0.\overline{36}$ b) $2\frac{3}{4}$ c) 2 r.9 d) 2.75

16. Compare $\frac{2}{3}$ ◯ 0.67

a) $>$ b) $<$ c) $=$ d) can't be compared

17. Which set is ordered from greatest to least?

a) $\frac{3}{10}, \frac{3}{11}, \frac{3}{12}$ b) $\frac{3}{12}, \frac{3}{11}, \frac{3}{10}$ c) $\frac{10}{3}, \frac{11}{3}, \frac{12}{3}$ d) not given

18. Find 40% of 80.

a) 20 b) $\frac{4}{10}$ c) 30 d) not given

19. $27 - 9 \div 3^2 \cdot 2 =$

a) 4 b) 52 c) 25 d) 36

20. $(5-8)^2 =$

a) 9 b) –59 c) –9 d) not given

21. $\sqrt{6^2 + 4^2} =$

a) 10 b) $\sqrt{20}$ c) $2\sqrt{13}$ d) not given

22. Evaluate $(4z)^2$, for $z = -5$.

a) 100 b) –100 c) –400 d) 400

23. Evaluate $2y^3 - (4 - 2y)$, for $y = -1$.

a) –8 b) –14 c) 4 d) not given

24. Solve the equation $-1(2-x)=12+2x$.

a) $x=-\frac{14}{3}$ b) $x=\frac{10}{3}$ c) $x=-14$ d) not given

25. Solve the equation $\frac{-2}{3}n-5=17$.

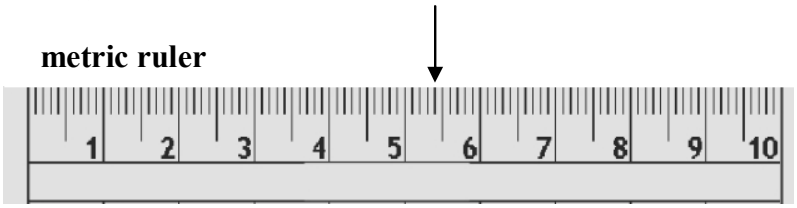
a) $n=-18$ b) $n=\frac{44}{3}$ c) $n=33$ d) not given

26. If $\frac{3}{7}=\frac{2}{m}$, then

a) $m=6$ b) $m=\frac{14}{3}$ c) $m=\frac{3}{14}$ d) $m=4.7$

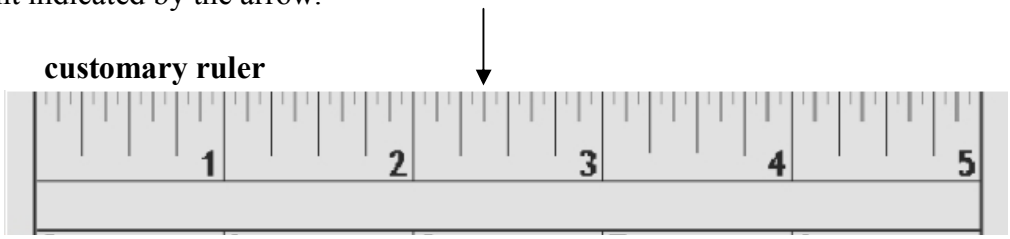
27. Write the measurement indicated by the arrow.

a) 5.4 mm
b) 5.4 cm
c) 54 mm
d) Both b and c



28. Write the measurement indicated by the arrow.

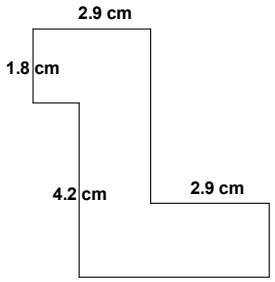
a) 2.6 inches
b) $2\frac{3}{8}$ inches
c) $2\frac{3}{10}$ inches
d) none of the above



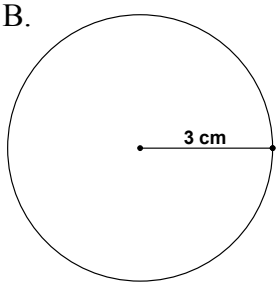
29. Identify the arrangement of letters corresponding to the **perimeters** of figures A, B, and C listed from least to greatest.

a) A, B, C b) C, A, B c) B, C, A d) A, C, B

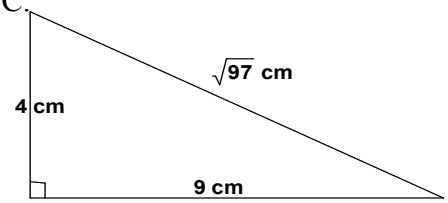
A.



B.



C.

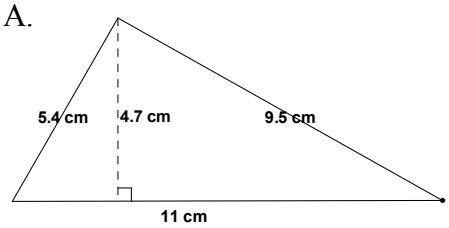


Assume angles are right angles.

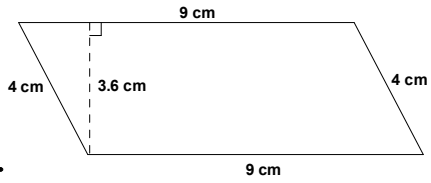
30. Identify the arrangement of letters corresponding to the **areas** of figures A, B, and C listed from least to greatest.

a) A, B, C b) C, A, B c) C, B, A d) B, C, A

A.



B.



C.