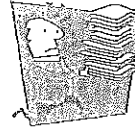


# Welcome to 8<sup>th</sup> grade!!!

Answer each question.



Please show all work



so that an accurate

assessment of your skills can be recorded.



CIRCLE



your final

answer. Please



no calculator.

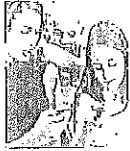


, no phoning



a friend ,

no texting



and no polling your family.



You can do it!!!!



Now get working and show the math team what you're made of!!!

TEAM

With exponential regards, The Seacrest Math Team!!



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## Pre-Algebra

### Section 1

Multiply or divide each group of numbers below. Write any remainders next to your answer.

1. 
$$\begin{array}{r} 548 \\ \times 7 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 8,412 \\ \times 39 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 648 \\ \times 315 \\ \hline \end{array}$$

4. 
$$6 \overline{)73,824}$$

5. 
$$15 \overline{)9,409}$$

Reduce each fraction below.

6.  $\frac{2}{18}$

7.  $\frac{21}{28}$

Multiply or divide each pair of fractions below. Make sure your answers are fully reduced.

8.  $\frac{4}{15} \times \frac{5}{8}$

9.  $\frac{2}{3} \times \frac{5}{7} \times \frac{3}{4}$

10.  $\frac{2}{7} \div \frac{6}{14}$

11.  $4\frac{1}{2} \div 2\frac{2}{5}$

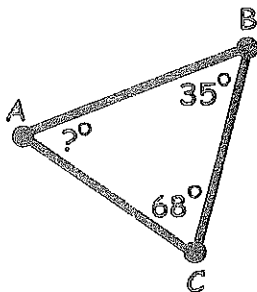
Tell whether a  $<$ ,  $>$ , or  $=$  sign should go between these numbers.

12.  $-7 \underline{\quad} -5$

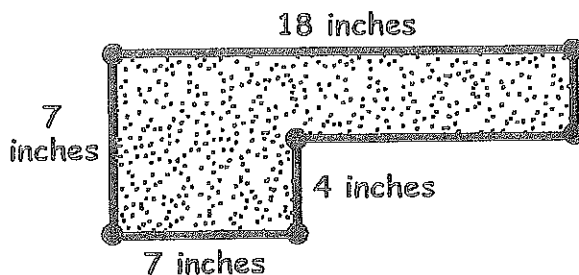
13.  $-44.2 \underline{\quad} -44.22$

PRE-ALGEBRA PLACEMENT TEST

14. Find the missing angle in the diagram below.



15. Calculate the area of the figure below.



Section 2

Add or subtract each pair of fractions below. Make sure your answers are fully reduced.

16.  $\frac{1}{4} + \frac{3}{8}$

17.  $\frac{1}{6} + \frac{2}{5} + \frac{7}{30}$

18.  $\frac{5}{6} - \frac{3}{9}$

19.  $4\frac{1}{6} - 1\frac{1}{3}$

20. Write sixteen thousandths as a decimal.

Add or subtract each pair of numbers below.

21. 
$$\begin{array}{r} 9.687 \\ + 8.295 \\ \hline \end{array}$$

22.  $1.943 - 0.76$

23. Divide  $44.45 \div 3.5$

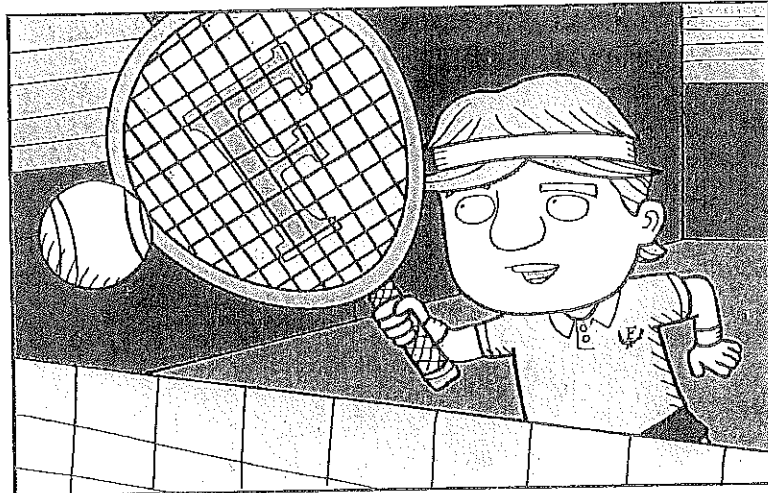
## TEACHING TEXTBOOKS

Answer each question below.

24. Write 0.874 as a percent.
25. Write 5.9% as a decimal.
26. What is 45% of 184?
27. Convert 27 feet into yards.
28. How many centimeters are in 3.511 meters?

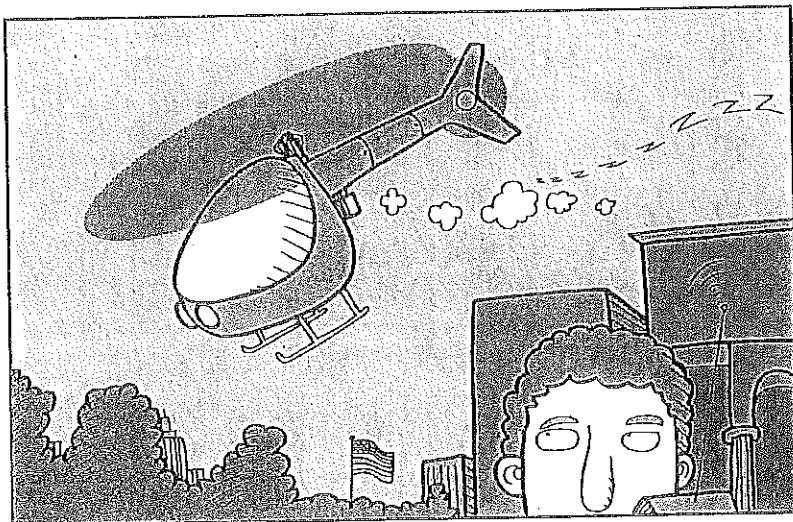
Solve each word problem below.

29. At a sporting goods store, Franklin tennis racquets normally sell for \$110, but this week they're selling for  $\frac{1}{5}$  less than their normal price. How much has the price on each racquet been lowered?



PRE-ALGEBRA PLACEMENT TEST

30. The price tag on the remote-controlled helicopter said \$79. If Jimmy buys the helicopter, he'll also have to pay 8% sales tax. How much does the helicopter cost with tax?



1.  $9 + 208 + 751 + 34 =$

Your answer:

- 982
  - 992
  - 993
  - 1002
  - none of these
- 

2.  $4306 - 1492 =$

Your answer:

- 2804
  - 2814
  - 3114
  - 3814
  - none of these
- 

3.  $507 \times 709 =$

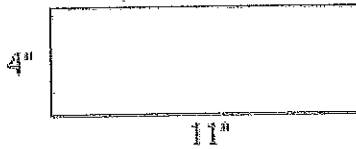
Your answer:

- 39,953
- 40,053
- 358,463
- 359,463
- none of these

4.  $39,472 \div 78 =$

Your answer:

- 4997 r 4
  - 634 r 20
  - 506 r 4
  - 56 r 4
  - none of these
- 



5. Find the perimeter of the rectangle shown above.

Your answer:

- 30 inches
  - 30 square inches
  - 15 inches
  - 44 inches
  - 44 square inches
- 

6.  $60 - 36 \div 3 \times 4 =$

Your answer:

- 96
  - 2
  - 57
  - 32
  - 12
- 

7. Which of the following is the prime factorization of 510?

Your answer:

- $10 \times 51$
  - $2 \times 5 \times 51$
  - $2 \times 3 \times 5 \times 17$
  - $2 \times 5 \times 7 \times 13$
  - none of these
- 

8. When  $39/91$  is reduced to lowest terms, it is:

Your answer:

- $2/13$

- 1/3
  - 3/7
  - 39/91
  - 13/31
- 

$$0.36 \overline{)5.4}$$

9. What is the answer to this division problem?

Your answer:

- 0.015
  - 0.0015
  - 15
  - 150
  - 0.15
- 

10. Add and write your answer in lowest terms.  $\frac{2}{5} + \frac{1}{6} + \frac{4}{15} =$

Your answer:

- $\frac{7}{30}$
  - $\frac{23}{30}$
  - $\frac{5}{6}$
  - $\frac{25}{30}$
  - $\frac{7}{26}$
- 

$$8 \overline{)0.12}$$

11. What is the answer to this division problem?

Your answer:

- 0.015
  - 0.15
  - 1.5
  - 15
  - none of these
- 

12. When 0.1846 is rounded to the thousandths place, the answer is:

Your answer:

- 0.184

- 0.1800
  - 0.185
  - 0.19
  - 0.1900
- 

13. Multiply and write your answer in lowest terms:  $21/26 \times 39/42 =$

Your answer:

- $3/4$
  - $63/84$
  - $1 \frac{1}{8}$
  - $2/3$
  - $117/156$
- 

14.  $2.3 + 0.18 + 15 =$

Your answer:

- 0.056
  - 17.48
  - 0.56
  - 2.63
  - 3.98
- 

15.  $3/8 - 5/18 =$

Your answer:

- $7/72$
  - $1/5$
  - $1/18$
  - $4/13$
  - $5/48$
- 

16.  $45 - 2.68 =$

Your answer:

- 18.2
  - 1.82
  - 2.43
  - 42.32
  - 43.68
- 

17.  $1.8 \times 0.145 =$

Your answer:

- 2.61
  - 0.1205
  - 26.1
  - 0.0261
  - 0.261
- 

18.  $2 \frac{2}{5} \times 6 =$

Your answer:

- $14 \frac{2}{5}$
  - $\frac{2}{5}$
  - $4 \frac{4}{5}$
  - $12 \frac{2}{5}$
  - $\frac{2}{15}$
- 

19. What is the ratio of 50 minutes to two hours?

Your answer:

- $\frac{1}{4}$
  - $\frac{5}{12}$
  - $\frac{50}{2}$
  - 25
  - none of these
- 

20.  $\frac{5}{6} \div \frac{2}{3} =$

Your answer:

- 5
  - $1 \frac{4}{5}$
  - $\frac{5}{9}$
  - $1 \frac{1}{4}$
  - $\frac{4}{5}$
- 

21.  $7 \frac{5}{9} - 3 \frac{7}{9} =$

Your answer:

- $3 \frac{7}{9}$
  - $4 \frac{8}{9}$
  - $3 \frac{8}{9}$
  - $4 \frac{7}{9}$
  - $3 \frac{2}{9}$
-

22. Write  $5/16$  in decimal form.

Your answer:

- 0.52
  - 3.125
  - 5.2
  - 31.25
  - 0.3125
- 

23. Change 32% to a fraction.

Your answer:

- $1.6/50$
  - $16/5$
  - $4/125$
  - $8/25$
  - none of these
- 

24. Change 8.75% to a decimal.

Your answer:

- 0.0875
  - 0.875
  - 8.75
  - 87.5
  - none of these
- 

25. What is 4% of 180?

Your answer:

- 0.72
  - 4.5
  - 7.2
  - 72
  - none of these
- 

26.  $(-5) - (+6) =$

Your answer:

- +1
- 1
- +11
- 11

none of these

---

27. 75 is 30% of what number?

Your answer:

- 2.5  
 22.5  
 25  
 250  
 none of these
- 

28. 60 is what percent of 150?

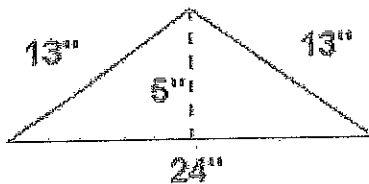
Your answer:

- 40%  
 2/5%  
 25%  
 250%  
 400%
- 

29. If the original price of an item costing \$7.20 is reduced by 40%, the sale price is:

Your answer:

- \$5.40  
 \$2.88  
 \$4.32  
 \$1.80  
 \$6.80
- 



30. Find the area of the triangle illustrated above ( $A = 1/2 b * h$ ).

Your answer:

- 55 inches  
 60 inches  
 60 square inches  
 120 square inches  
 50 inches