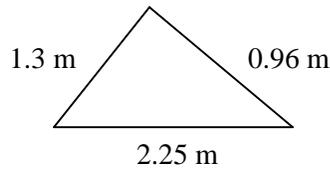


**2005 Pizitz Mathematics Tournament
Sixth Grade Ciphering**

1-1 Simplify: $\frac{1}{4} + \frac{1}{3} \div 2$.

1-2 If $3A = 12$ and $B - 6 = 9$, what is $A + 2B$?

1-3 Find the perimeter.



1-4 A CD is priced \$9.50. If the tax rate is 7%, what is the tax?

1-5 What is the sum of the range and mode of these scores:
75, 86, 94, 72, 86, 86, 97, 83, 90

2-1 What is $\frac{7}{12}$ subtracted from $\frac{3}{4}$?

2-2 27 out of 180 band members are percussionists. What percent are percussionists?

2-3 A triangle has an area of 56 sq. in. Its base is 8 in. What is its height?

2-4 Simplify: $-12 + 8 + (-6)$.

2-5 A tree grows at a rate of 20 inches per year. In feet and inches, how tall is the plant at the end of 4 years?

3-1 Solve: $4y - 6 = 22$.

3-2 A rectangular room measures 16 ft. by 18 ft. How many square yards of carpeting are required to cover the floor?

3-3 The Smiths' left their house at 7:25 a.m. to drive to the beach. After driving at an average rate of 52 mph, they arrived at the beach at 9:10 a.m. How many miles did they drive?

3-4 What is the difference between $3\frac{7}{10}$ and 1.78?

3-5 A regular hexagon with a perimeter of 48 in. has the same side lengths as a square. What is the perimeter of the square?

4-1 Simplify: $(36 \div 4 \times 9) + (36 \div 9 \times 4)$.

4-2 585 students attended a dance at a ratio of 7 girls to 6 boys. How many girls attended the dance?

4-3 A circle has a circumference of 20 meters. What is its area? Use 3.14 for pi.

4-4 What is the probability of getting a non-prime number when tossing a decagonal die with sides numbered 1 – 10?

4-5 Each school is competing today in one of 3 divisions. There are 3 grade levels. If 10 individual trophies and 5 team trophies are given to each grade and division, how many trophies will be awarded?

Extra 1 What is $6.117 \div 0.03$?

Extra 2 If 25% of N is 15, what is 30% of N?

Extra 3 A triangle has an area of 18 sq ft. Its height is 9 ft. What is its base?