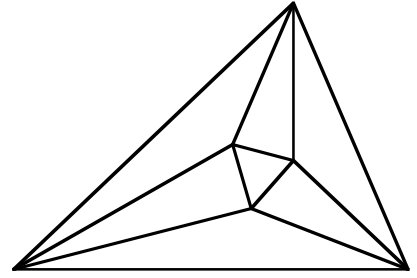


Meet 1 - Event A 2010-2011

Questions are worth 2-2-2-4-4 points respectively.
Remember your units.

NO CALCULATORS ALLOWED



_____ 1. Write as a decimal:

$$\frac{3}{4} + \frac{1}{2} + \frac{3}{5} = ?$$

_____ 2. On a fishing trip to Canada, a couple caught 163 fish. They caught 110 walleye, 5 northern pike, 6 rock bass, and the rest were perch. They brought home 10 perch. What fraction of the perch caught were brought home (in a reduced fraction)?

_____ 3. There are p pencils to be put into b school boxes equally. Write an equation for n , the number of pencils in each box.

_____ 4. Write as a ratio of relatively prime numbers:

$$\frac{1}{4} + \frac{1}{3} + 0.44 = ?$$

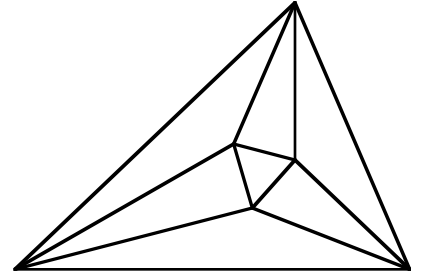
_____ 5. Find the GCF of 180, 200, and 1620.

Name _____ School _____

Meet 1 - Event A 2010-2011

Answers

Questions are worth 2-2-2-4-4 points respectively.
Remember your units.



1.85 1. $0.75 + 0.5 + 0.6 = 1.85$

$\frac{5}{21}$ 2. $110 + 5 + 6 = 121$, $163 - 121 = 42$ perch caught, $\frac{10}{42} = \frac{5}{21}$

$n = \frac{p}{b}$ 3. The word "equation" indicates that " $n =$ " must be part of the answer.

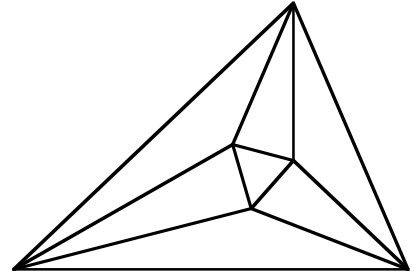
$\frac{307}{300}$ 4. $\frac{1}{4} + \frac{1}{3} + \frac{44}{100} = \frac{1 \cdot 300}{4 \cdot 300} + \frac{1 \cdot 400}{3 \cdot 400} + \frac{44 \cdot 12}{100 \cdot 12} = \frac{300 + 400 + 528}{1200} = \frac{1228}{1200} = \frac{307}{300}$
(or reduce $\frac{44}{100}$ to $\frac{11}{25}$ immediately)

20 5. $180 = \underline{2} \cdot \underline{2} \cdot \underline{5} \cdot \underline{9}$, $200 = \underline{2} \cdot \underline{2} \cdot \underline{2} \cdot \underline{5} \cdot \underline{5}$, $1620 = \underline{2} \cdot \underline{2} \cdot \underline{5} \cdot \underline{9} \cdot \underline{9}$
GCF = $2 \cdot 2 \cdot 5 = 20$

Meet 1 - Event B 2010-2011

Questions are worth 2-2-2-4-4 points respectively.
Remember your units.

NO CALCULATORS ALLOWED



_____ 1. Write 427.6789 to the nearest hundredth.

_____ 2. Simplify:

$$\frac{-2 + 5}{3(4 - 7)}$$

_____ 3. Ken added up the lengths of all the fish he caught and got 748 inches. This reduces to a yards b feet c inches. What is the sum of $a + b + c$?

_____ 4. Leslie lives a 40 minute drive from Lisa's house. Leslie left home at 10:30AM and drove to a party at Lisa's. She arrived back home at 2AM. How long was she at the party in hours and minutes?

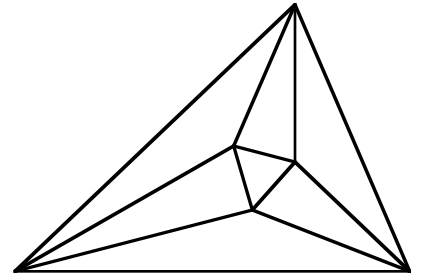
_____ 5. The product of two consecutive odd numbers is 2499. What is the smaller number?

Name _____ School _____

Meet 1 - Event B 2010-2011

Answers

Questions are worth 2-2-2-4-4 points respectively.
Remember your units.



427.68 1. Nearest hundredth is to two decimal places.

$-\frac{1}{3}$ 2. $\frac{3}{3(-3)} = \frac{1}{-3}$

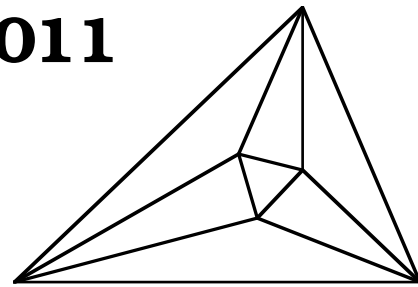
26 3. 748 inches = 20 yards 2 feet 4 inches. $20 + 2 + 4 = 26$

14 hr 10 min 4. $40+40=80$ minutes driving time. From 10:30AM until 2AM is
 $1\frac{1}{2}\text{hr}+12\text{hr}+2\text{hr}=15\frac{1}{2}$ hours. At the party time is
 $15\frac{1}{2}\text{hr} - 80\text{min}=14\text{hr}90\text{min}-80\text{min}=14\text{hr}10\text{min}$

49 5. 2499 is close to 50×50 , so try 49 and 51. $49 \times 51 = 2499$

Meet 1 - Team Event 2010-2011

Questions are worth 4 points each.
Remember your units.

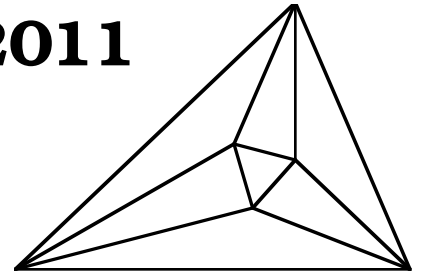


NO CALCULATORS ALLOWED

- _____ 1. Simplify: $7 - 3(5 - 8) + 40 \div 4 = ?$
- _____ 2. Of the 100 fish Ken caught, he ate five, brought home four, and threw the rest back. What fraction of fish did he throw back into the lake?
- _____ 3. How many factors does 1620 have?
- _____ 4. When divided, $1/23$ has a repetend (the repeating part of the decimal) of 22 digits. What are the last two digits of the repetend?
- _____ 5. What is three eighths of sixteen squared?
- _____ 6. Mary paid \$200 to have a booth at the fair. She spent \$46 on supplies and paid an assistant \$50. She took in \$550. What was her profit?
- _____ 7. At the fair, Youa bought two drawings at \$20 each, coffee for \$2, lunch for \$12 and a vase for \$15. How much did she spend?
- _____ ^{mph}8. In Canada the speed limits are posted in Km/hr. If six tenths of a mile is one kilometer, what speed is 90 Km/hr in miles per hour?
- _____ 9. Factor 79380 into primes to the appropriate power.
- _____ 10. The sum of four consecutive odd numbers is one hundred four. What is the largest of these four numbers?

Meet 1 - Team Event

2010-2011



Answers

Questions are worth 4 points each.
Remember your units.

26 1. $7 - 3(-3) + 10 = 7 + 9 + 10 = 26$

$\frac{91}{100}$ 2. $5 + 4 = 9$, $100 - 9 = 91$, so $\frac{91}{100}$

30 3. $1620 = 2^2 \cdot 3^4 \cdot 5^1$, so $(2+1)(4+1)(1+1) = 3 \cdot 5 \cdot 2 = 30$

13 4. $\begin{array}{r} .04\text{K K} \ .13 \\ 23 \overline{) 1.00\text{K K} \ .00} \end{array}$ For the repetend to start over, the remainder must be 1, so work backwards.

$$\begin{array}{r} 93 \\ \underline{80} \\ 30 \\ \underline{23} \leftarrow 1 \times 23 \text{ ends in } 3 \\ 70 \\ \underline{69} \leftarrow 3 \times 23 \text{ ends in } 9 \\ 1 \leftarrow \text{starts the repetend} \end{array}$$

96 5. $\frac{3}{1} \cdot \frac{16}{8} = 3 \cdot 2 = 96$

\$254 6. $\$550 - \$200 - \$46 - \$50 = \$254$
 (must have \$)

\$69 7. $2(\$20) + \$2 + \$12 + \$15 = \$69$
 (must have \$)

54 mph 8. $90 \times 0.6 = 54.0 \text{ mph}$

$2^2 \cdot 3^4 \cdot 5^1 \cdot 7^2$ 9. $2^2 \cdot 3^4 \cdot 5 \cdot 7^2$ The exponent of 1 on the 5 is implied.
 or $2^2 \cdot 3^4 \cdot 5 \cdot 7^2$

29 10. $\frac{104}{4} = 26$ so try the odds below and above 26, $23+25+27+29=104$