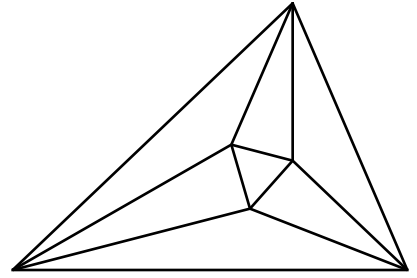


Meet 3 - Event A 2003-2004

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



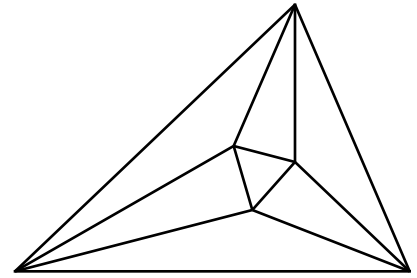
- _____ 1. Miguel planned to drive from Duluth to Blaine on the freeway where he could drive 65 miles per hour. If the distance is 140 miles, how long would it take him in minutes, to the nearest minute?
- _____ 2. What is 0.5% of 200?
- _____ 3. Solve for x as a decimal: $2x + 5 = 10$
- _____ 4. Carla knew that 1 pound of garlic roast beef at the deli cost \$4.79. How many ounces could she buy with \$1.50, to the nearest ounce?
- _____ 5. Two cubic dice are rolled. Each die has the number 1, 2, 3, 4, 5, or 6 on a side. Your score is the sum of the two numbers that are face up after the dice stop rolling. How many different scores are possible?

Name _____ School _____

Meet 3 - Event A 2003-2004

Answers

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



129 1. $\frac{140}{65} = 2.1538 \times 60 = 129.228$

1 2. $0.005 \times 200 = 1$

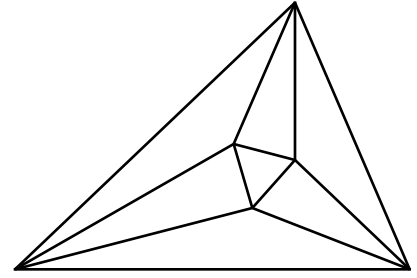
2.5 3. $2x = 5, \quad x = \frac{5}{2} = 2\frac{1}{2} = 2.5$

5 4. 1 pound=16 ounces $\frac{16}{4.79} = \frac{x}{1.50}, \quad x = 5.0104$

11 5. Smallest=1+1=2, Largest=6+6. There are 11 possible scores, 2 through 12.

Meet 3 - Event B 2003-2004

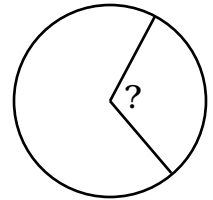
Questions are worth 2-2-2-4-4 points respectively.
Remember your units.



_____ 1. Solve for x : $12.8 - 4.5x = 3.8$

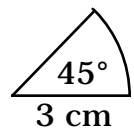
_____ 2. Solve for x : $3x - 5 = 15 - x$.

- _____ 3. Jack was making a pie graph to show that the town only received 30% of the normal rainfall of 5.25 inches for September. How many degrees, to the nearest degree, would he use to make the sector representing the actual rainfall?



- _____ 4. The sides of a triangle are in the ratio of 2:3:5 and the shortest side is 12 cm, Find the perimeter.

- _____ 5. A circle sector has a radius of 3 cm and an angle of 45° . What is the perimeter to the nearest tenth?

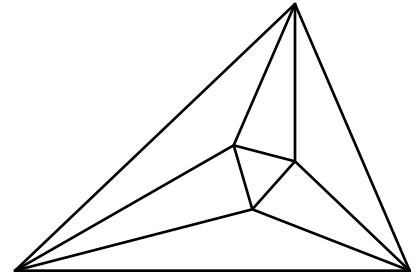


Name _____ School _____
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Meet 3 - Event B 2003-2004

Answers

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



2 1. $12.8 = 3.8 + 4.5x$, $9 = 4.5x$, $x = 2$

5 2. $4x - 5 = 15$, $4x = 20$, $x = 5$

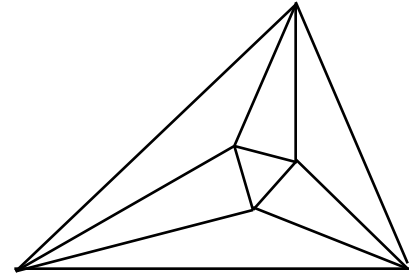
108° 3. $0.30 \times 360^\circ = 108^\circ$
The 5.25 inches is information that is not needed.

60 cm 4. $\frac{2}{12} = \frac{3}{a}$, $a = 18$, $\frac{2}{12} = \frac{5}{b}$, $b = 30$, $P = 12 + 18 + 30 = 60$

8.4 cm 5. $C = 2\pi(3) = 6\pi$ cm, $\frac{45^\circ}{360^\circ} = \frac{x}{6\pi}$, $x = 2.356$ cm, $P = 3 + 3 + 2.4 = 8.4$ cm

Meet 3 - Event C 2003-2004

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



_____ 1. Solve for x : $\frac{3}{x-2} = \frac{5}{x+3}$.

_____ 2. To change $^{\circ}\text{C}$ to $^{\circ}\text{F}$, you can use the formula $F = \frac{9}{5}C + 32$. Solve for C .

_____ 3. What is 0.5% of 200?

_____ 4. Nan was walking around Round Lake. Dorcas started at the same time from the same place in the same direction and was roller blading around the lake. During the 75 minutes that it took Nan to walk 5 miles around the lake once, Dorcas circled the lake twice. Assuming she roller bladed at a steady speed, how far did Dorcas travel in one hour?

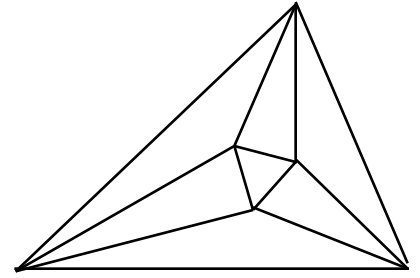
_____ 5. Ann and Jared were walking the 2 miles around Lake Lucy. They started at the same place, but went in opposite directions. If Ann walked at 2.5 mph and Jared walked at 4 mph, after how long would they meet, to the nearest minute?

Name _____ School _____

Meet 3 - Event C 2003-2004

Answers

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



9.5 1. $3(x + 3) = 5(x - 2)$, $3x + 9 = 5x - 10$, $19 = 2x$, $x = 9.5$

$\frac{5}{9}(F - 32)$ 2. $F - 32 = \frac{9}{5}C$, $C = \frac{5}{9}(F - 32)$
or $\frac{5}{9}F - \frac{160}{9}$

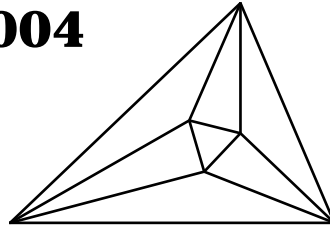
1 3. $0.005 \times 200 = 1$

8miles 4. $2 \times 5 = 10$ miles, 75 minutes = 1.25 hours, $\frac{10}{1.25} = 8$ mph

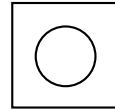
18minutes 5. $\frac{d}{2.5} = \frac{2-d}{4}$, $4d = 5 - 2.5d$, $6.5d = 5$, $d = 0.76923$
 $t = \frac{0.76923}{2.5} = 0.30769 \times 60 = 18.46$

Meet 3 - Team Event 2003-2004

Questions are worth 4 points each.
Remember your units.



- _____ % 1. Ken paid a total of \$1350 for a stereo system that was marked at \$1250. What was the sales tax percent used in that city?
- _____ 2. The sweater was marked down 20%. If the original cost was \$30, what was the sale price?
- _____ 3. Change 4.651327" to the nearest 1/8 of an inch, as a mixed number.
- _____ 4. 45 is what percent of 20?
- _____ 5. John cut a circle out of a square piece of aluminum. The circle diameter was 10 inches and the circle was 4 inches from each edge at its closest point. How much tape did he need to put tape on all the edges of this piece of aluminum? Answer in whole inches.



- _____ 6. Solve for x : $3(x - 2) = 5x$.
- _____ 7. Jake cut a 4 inch square out of the side of an 8 inch by 10 inch rectangle. What is the perimeter of this new shape?



- _____ 8. At Cheryl's party, everyone shook hands with everyone else just once. There were 15 shakes. How many people were at the party?
- _____ 9. Maggie traveled at 65 mph for 3 hours on the Interstate, then drove for 1 hour at 55 mph. What was her average speed to the nearest tenth?
- _____ 10. Sam averaged 60 mph for his trip. He drove at 65 mph for 3 hours on the Interstate, and for 30 minutes in town. What was his average speed in town

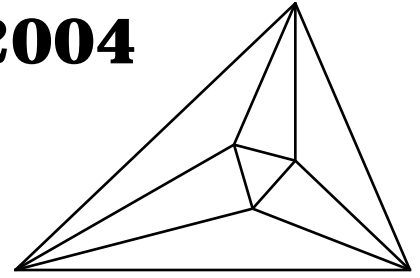
School _____

Meet 3 - Team Event

2003-2004

Answers

Questions are worth 4 points each.
Remember your units.



8% 1. $1350 - 1250 = 100$, $\frac{100}{1250} = 0.08$

\$24 2. $0.80 \times 30 = 24$

$4\frac{5}{8}$ 3. $\frac{5}{8} = 0.625$, $\frac{6}{8} = 0.75$, so $\frac{5}{8}$ is closer

225% 4. $\frac{45}{20} = 2.25$

104 inches 5. Straight edges: $4 \times (4 + 10 + 4) = 72$, circle edge: $10\pi = 31.4$
Total = $72 + 31.4 = 103.4 = 104$ inches

-3 6. $3x - 6 = 5x$, $-6 = 2x$, $x = -3$

44 inches 7. $P = 2(8) + 2(10) + 8(2 \text{ sides of square}) = 44$ inches

6 8. 2 people = 1 shake, 3 people = $1 + 2 = 3$ shakes, 4 people = $1 + 2 + 3 = 6$ shakes,
5 people = $1 + 2 + 3 + 4 = 10$ shakes, 6 people = $1 + 2 + 3 + 4 + 5 = 15$ shakes,

62.5mph 9. $65 \times 3 = 195$ miles, $55 \times 1 = 55$ Miles, $195 + 55 = 250$ miles in 4 hours

30mph 10. $60\text{mph} \times 3.5\text{hours} = 210\text{miles total}$, $65\text{mph} \times 3 = 195\text{miles}$
 $\therefore 15 \text{ miles in town } 15 / 0.5 = 30\text{mph}$