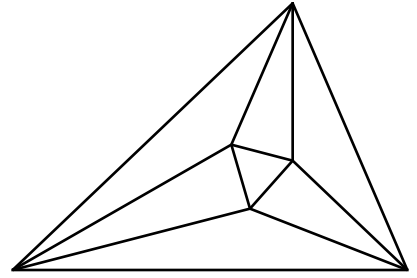
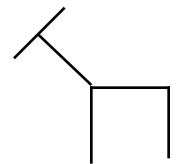


Meet 3 - Event A 2004-2005

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



- _____ % 1. In October, the polls showed Kerry with 45% and Bush with 47%. What percent of the voters in the poll were still undecided between the two candidates (assuming there are no other candidates)?
- _____ % 2. The political poll showed Bush with 47% with a margin of error of 5%. What is the highest percent of people that could be voting for Bush, according to this poll?
- _____ 3. In Pat's class, $\frac{2}{3}$ of the students were in sports. If there were 33 students in the class, how many were in sports?
- _____ 4. Solve for x as a decimal: $10 - 4x = 47$.
- _____ 5. Move one match to produce a new figure that is a reflection of the original figure.

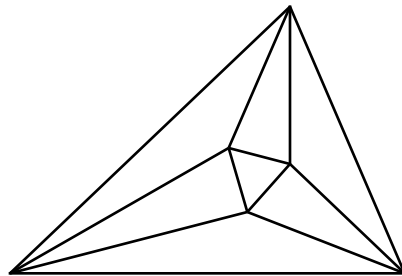


Name _____ School _____

Meet 3 - Event A 2004-2005

Answers

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

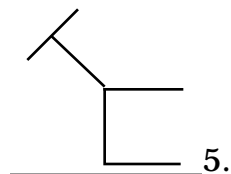


8% 1. $45 + 47 = 92$, $100 - 92 = 8$

52% 2. $45 + 5 = 52$

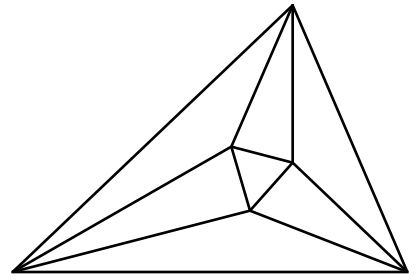
22 3. $\frac{2}{3} = \frac{x}{33}$, $x = \frac{2 \times 33}{3} = 22$

-9.25 4. $10 - 4x = 47$, $-4x = 37$, $x = -9.25$



Meet 3 - Event B 2004-2005

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



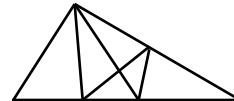
_____ 1. Solve for x : $3x + 4 = 5x - 2$.

_____ 2. The length of a rectangle is three times the width. If the width is 5 inches, what is the perimeter?

_____ 3. What is the ratio of the side of a square to its perimeter?

_____ 4. Xia drove at 65 mph for 90 minutes, stopped for lunch for 30 minutes, then drove at 70 mph for 2 hours. How far did she travel?

_____ 5. How many triangles are in this figure?



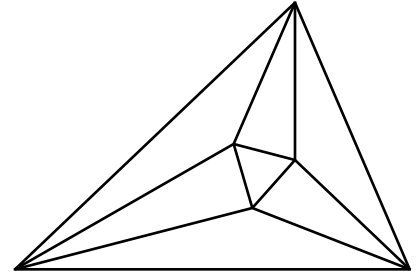
Name _____ School _____
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Meet 3 - Event B 2004-2005

Answers

Questions are worth 2-2-2-4-4 points respectively.

Remember your units.



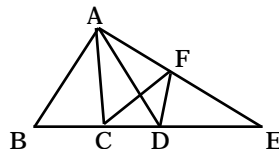
3 1. $3x + 4 = 5x - 2, \quad 4 = 2x - 2, \quad 6 = 2x, \quad x = 3$

40in. 2. $W = 5\text{in.} \quad L = 3 \times 5 = 15\text{in.} \quad P = 2(5 + 15) = 40\text{in.}$
(1 pt. for number
1 pt. for units)

$\frac{1}{4}$ 3. Since $P = 4s, \quad s = \frac{1}{4}P$

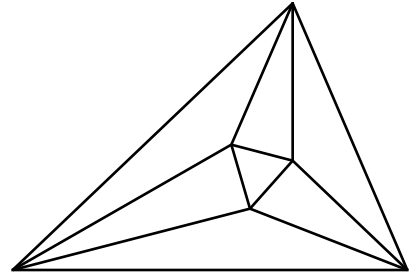
237.5 miles 4. $65 \text{ mph} \times 1.5 \text{ h} = 97.5 \text{ miles}$
(3 pt. for number $70 \text{ mph} \times 2 \text{ h} = \underline{140.0 \text{ miles}}$
1 pt. for units) $\quad \quad \quad 237.5 \text{ miles}$

15 5. 1 large, 6 small, plus ABD, ACD, ACE, ACF, ADE, ADF, CDF, CEF



Meet 3 - Event C 2004-2005

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



_____ 1. Solve for x as an improper fraction: $3(x - 7) = 20 - 5x$.

_____ 2. What is 8% of four fifths of 48 to the nearest tenth?

_____ 3. Natasha runs at a rate of 5 miles per hour. How many feet does she run in 15 seconds? There are 5280 feet in one mile.

_____ 4. Solve for x : $\frac{ax}{b+x} = \frac{d}{e}$.

_____ 5. If the acute angle is 50° and the circle radius is 7 cm, what is the perimeter of this figure to 3 significant figures?

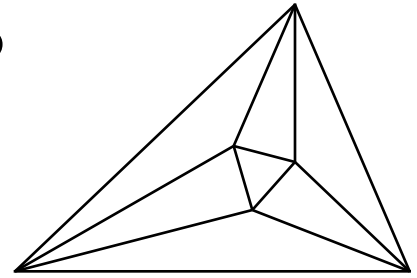


Name _____ School _____

Meet 3 - Event C 2004-2005

Answers

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



$$\frac{41}{8} \quad 1.$$

$$\begin{aligned} 3x - 21 &= 20 - 5x \\ 8x - 21 &= 20 \\ 8x &= 41 \\ x &= \frac{41}{8} \end{aligned}$$

$$\underline{3.1} \quad 2. \quad 0.08 \times 0.8 \times 48 = 3.072$$

$$\underline{110 \text{ feet}} \quad 3. \quad \frac{5 \text{ miles}}{1 \text{ hour}} \times \frac{1 \text{ hour}}{3600 \text{ seconds}} \times \frac{5280 \text{ feet}}{1 \text{ mile}} \times 15 \text{ seconds} = 110 \text{ feet}$$

$$\frac{bd}{(ae - d)} \quad 4.$$

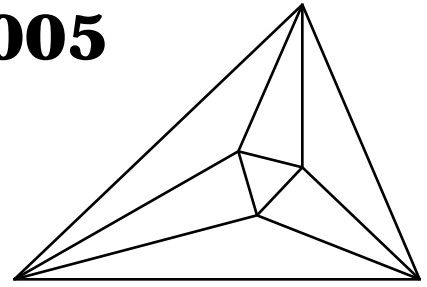
$$\begin{aligned} aex &= d(b + x) = bd + dx \\ aex - dx &= bd \\ (ae - d)x &= bd \\ x &= \frac{bd}{(ae - d)} \end{aligned}$$

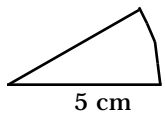
$$\underline{51.9 \text{ cm}} \quad 5. \\ (3 \text{ pt. for number} \\ 1 \text{ pt. for units})$$

$$\begin{aligned} 360^\circ - 50^\circ &= 310^\circ \\ \frac{310}{360} &= \frac{x}{2\pi(7)} \\ x &= 37.87 \\ P &= 37.87 + 14 = 51.87 \end{aligned}$$

Meet 3 - Team Event 2004-2005

Questions are worth 4 points each.
Remember your units.



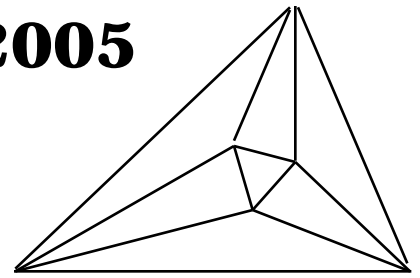
- _____ 1. The length of a rectangle is three times the width. If the perimeter is 36 inches, what is the length?
- _____ 2. The perimeter of a circle sector is 12.618 cm. If the radius of the circle is 5 cm, what is the angle to the nearest degree?
- 
- _____ 3. Seven consecutive integers have a product of 32432400. What is the largest of these numbers?
- _____ 4. A lady bug with 14 spots and 6 legs crawls once around the circular rim of a pot containing 3 petunias in 20 minutes. If she crawls at a rate of 94.35 inches per hour, what is the diameter of the pot?
- _____ 5. A trapezoid has one base twice the length of the other base, and one side is twice the length of the other side. The length of the short base equals the length of the long side. If the long base is 12 inches, what is the perimeter?
- _____ 6. A rectangular box is 10 inches by 6 inches by 3 inches. All six sides are made of cardboard. If the box can be made by folding one piece of cardboard and taping the edges, what is the smallest possible perimeter of the one piece of cardboard?
- _____ 7. How many numbers not larger than 2005 are multiples of 3 or 4, but not 5?
- _____ 8. In triangle ABC , $AB=90\%$ of BC and $BC=70\%$ of AC . If AC is 10 inches long, how long is AB ?
- _____ 9. How many trailing zeros in $50!$?
- _____ 10. Ryan starts his run at 1:00 PM and runs for 5 miles at a rate of 4 miles per hour. Jerry starts at 1:20 PM and runs the same 5 miles at a rate of 6 miles per hour. How many minutes are there between when Ryan finishes and when Jerry finishes?

Meet 3 - Team Event

2004-2005

Answers

Questions are worth 4 points each.
Remember your units.



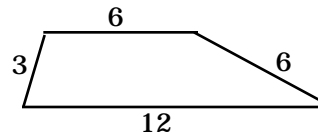
13.5 in 1. $2(3w + w) = 36$, $8w = 36$, $w = 4.5$, $L = 3(4.5) = 13.5$,

30° 2. $12.618 = 10 \text{ cm} + \text{Arc}$, $\text{Arc} = 2.618$, $\frac{2.618}{10\pi} = \frac{x}{360}$, $x = 30^\circ$ s

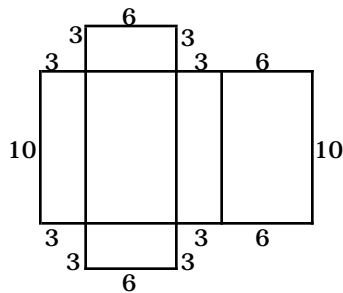
15 3. $32432400 = 2^4 \cdot 3^4 \cdot 5^2 \cdot 7 \cdot 11 \cdot 13 = 9 \cdot 10 \cdot 11 \cdot 12 \cdot 13 \cdot 14 \cdot 15$

10 inches 4. $\frac{60 \text{ min}}{20 \text{ min}} = 3$, so $\frac{94.25}{3} = 31.416$ in. around the pot. $\frac{31.416 \text{ in}}{\pi} = 10 \text{ in.}$,

27 inches 5. $3 + 6 + 6 + 12 = 27$ inches



68 inches 6.



802 7. $2005 = 4(501) + 1$ $501 = 5(100) + 1$
 $2005 = 3(668) + 1$ $668 = 5(133) + 1$
 $2005 = 12(167) + 1$ $167 = 5(33) + 2$
 $501 + 668 - 167 - 100 - 133 + 33 = 802$

6.3 inches 8. $BC = 0.7(10) = 7 \text{ in.}$, $AB = 0.9(7) = 6.3 \text{ in.}$

12 9. $1...5...5 \cdot 2...5 \cdot 3...5 \cdot 4...5 \cdot 5...5 \cdot 6...5 \cdot 7...5 \cdot 8...5 \cdot 9...5 \cdot 5 \cdot 2$
There are 12 fives to be multiplied by a 2 to produce a zero.

5 10. Ryan: $5/4 = 1.25$ hr so he finishes at 2:15 PM
Jerry: $5/6 = 0.8\bar{3}$ hr = 50 minutes so he finishes at 2:10 PM
Difference is 5 minutes