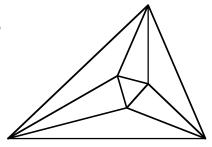
Meet 3 - Event A 2007-2008

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



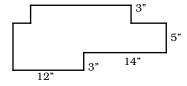
 $_{1}$. Solve for x as a quotient of relatively prime numbers:

$$4 - 6x = 14$$

 $\frac{\%}{2}$ 2. In the bag of Halloween candy were 10 Krackels, 14 Special Dark, and 18 Milk Chocolate. What percent of the candies were Special Dark?

3. Three fourths is to one third as four fifths is to n. What is n as a quotient of relatively prime numbers?

4. A large rectangle had several rectangular pieces cut out of it. What is the perimeter of the remaining piece?



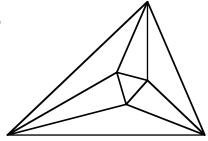
5. Solve for x: 3(x+5) = 4(x-2)

Meet 3 - Event A

2007-2008

Answers

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



$$\frac{-\frac{5}{3}}{1} \quad 1. \quad 4 - 6x = 14, \quad -6x = 10, \quad x = -\frac{10}{6} = -\frac{5}{3}$$

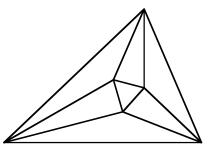
33.3\(\frac{3}{3}\) 2.
$$10 + 14 + 18 = 42 \text{ total}, \ \ \frac{14}{42} \times 100 = 33.3\(\frac{3}{3}\)$$

$$74$$
" 4. The horizontal lines add up to $2(12+14) = 52$
The vertical lines add up to $2(3+5+3) = 22$
Perimeter = $52 + 22 = 74$ "

$$23$$
 5. $3x+15=4x-8$, $15=x-8$, $x=23$

Meet 3 - Event B 2007-2008

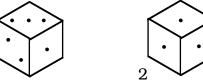
Questions are worth 2-2-2-4-4 points respectively. Remember your units.



1. Solve for x: 3(2-x)+7=5x-3

2. A bowling ball rolled 12 feet in 2 seconds. What was its average speed?

3. Each face of a cube has one, two, or three dots on it. Below are two views of the same cube. How many dots are on the face opposite the face with 3 dots?



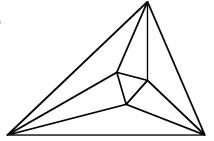
4. A jar with a lid costs \$1.50. The jar costs \$1.40 more than the lid. How much does the lid cost?

5. Mia ran around a circular track in 8.7 seconds. If her speed was 9 feet per second, what was the diameter of the track, to the nearest foot?

Meet 3 - Event B 2007-2008

Answers

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



$$2$$
 1. $6-3x+7=5x-3$, $13-3x=5x-3$, $13=8x-3$, $16=8x$, $x=2$

$$\underline{\qquad 6 \text{ ft/sec} \qquad 2. \qquad \frac{12 \text{ ft}}{2 \text{ sec}} = 6 \text{ ft/sec}$$

1 3. From view 2, one of the 1 dot faces must be opposite the 3 dot face.

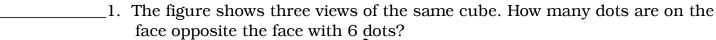
$$\underbrace{\begin{array}{c} \$0.05 \\ \text{or } 5\phi \end{array}} 4. \quad \text{jar + lid} = (1.40 + x) + x = 1.50, \quad 2x = 0.10, \quad \text{so } x = 0.05$$

25 ft 5. 9 $\frac{\text{ft}}{\text{sec}} \times 8.7 \text{ sec} = 78.3 \text{ ft}, \quad \pi d = 78.3, \quad d = 24.9$

Meet 3 - Team Event 2007-2008

08

Questions are worth 4 points each. Remember your units.









_2. My house went up in value 5% last year. If it is now worth \$300,000, what was it worth last year, to the nearest hundred?

_3. What percent of 50 is 600?

____4. The video game cost \$98 plus 6 1/2 % tax. How much must you pay for the video game?

5. Solve for x: $\frac{x-7}{15} = \frac{1}{3}$

_____6. How many distinct squares are in this figure?

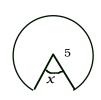


______7. In a magic square, the sum of each row, column, and diagonal is the same. In this magic square, compute *x*.

		14	20
I	х		
		25	

__8. Solve for x: 3(x-4)-2(3-x)=22.

9. If the radius is 5 in. and the perimeter is 36.18 in., what is the angle, to the nearest degree?



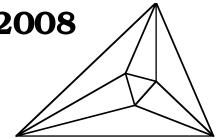
10. Solve for x: ax + b = c

Meet 3 - Team Event

2007-2008

Answers

Questions are worth 4 points each. Remember your units.



$$$285,700$$
 2. $1.05x = 300,000, x = 285,714$

$$3(x-7) = 1(15), \quad 3x - 21 = 15, \quad 3x = 36, \quad x = 12$$

$$12 \qquad 5. \quad \text{or } \frac{x-7}{1} = \frac{15}{3} = 5, \quad x-7 = 5, \quad x = 12$$



8 8.
$$3x-12-6+2x=22$$
, $5x-18=22$, $5x=40$. $x=8$

а	14	20
X	b	
c	25	

$$36.18 - 10 = 26.18$$
 arc length, $10\pi = 31.42 = \text{circumference}$,

9.
$$31.42 - 26.18 = 5.24$$
 missing arc, $\frac{5.24}{31.42} = \frac{x}{360}$, $x = 60^\circ$