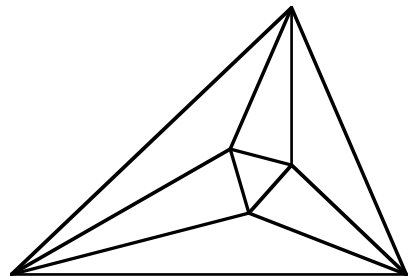


Meet 2 - Event B 2012-2013

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

NO CALCULATORS ALLOWED



_____ 1. Write 45600 in scientific notation.

_____ 2. What is the midpoint between -4 and 8.5 ?

_____ 3. Evaluate: $-|-5 - |-3 + 1||$.

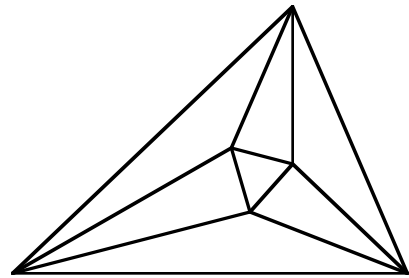
_____ 4. Solve for both values of x : $4 + |2x - 3| = 9$.

_____ 5. What is the coordinate of the point $\frac{1}{5}$ of the way from 15 to 5?

Meet 2 - Event B 2012-2013

Answers

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



4.56×10^4 1. $45600 = 4.56 \times 10^4$

2.25 2. $\frac{-4 + 8.5}{2} = \frac{4.5}{2} = 2.25$

-7 3. $-|-5 - |-2|| = -|-5 - (2)| = -|-7| = -(7) = -7$

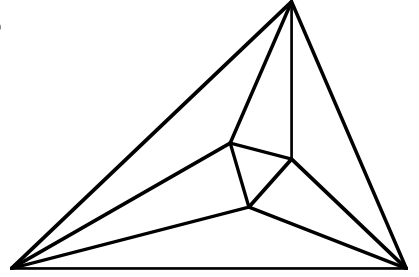
-1, 4 4. $|2x - 3| = 5$; $2x - 3 = 5, 2x = 8, x = 4$; or $2x - 3 = -5, 2x = -2, x = -1$
2 points each
answer

13 5. $15 - 5 = 10$ units, $\frac{1}{5} \times 10 = 2$. We are going down 2 units from 15.

Meet 2 - Event C 2012-2013

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

NO CALCULATORS ALLOWED



_____ 1. Solve for x : $9^2 = 3^x$.

_____ 2. Write 5040 as a factorial.

_____ 3. Solve for both values of x : $|x - a| = b$.

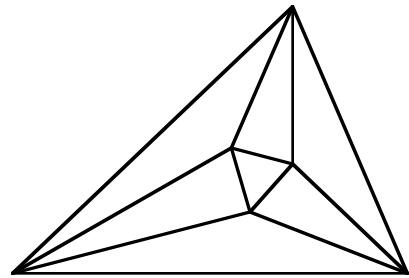
$2^2 3^2 5^0 = 4$ 4. Put in parentheses to make this a true statement: $2^2 3^2 5^0 = 4$

_____ 5. Solve for x : $x(x + 3) = x^2 - 4(x - 7)$.

Meet 2 - Event C 2012-2013

Answers

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



4 1. $9^2 = (3^2)^2 = 3^4, x = 4$

7! 2. $5040 = 2 \cdot 2520 = 2 \cdot 3 \cdot 840 = 2 \cdot 3 \cdot 4 \cdot 210 = 2 \cdot 3 \cdot 4 \cdot 5 \cdot 42 = 2 \cdot 3 \cdot 4 \cdot 5 \cdot 6 \cdot 7$

a+b, a-b 3. $x - a = b, x = a + b; x - a = -b, x = a - b$

$2^2(3^2 5)^0 = 4$ 4. Any number to the zero power is 1, and $2^2 = 4$, so $2^2(3^2 5)^0 = 4$

4 5. $\cancel{x} + 3x = \cancel{x} - 4x + 28, 7x = 28, x = 4$