

1. Remove parenthesis and simplify:

$$(2x + 4y + 3) : 4 - \frac{1}{2} \cdot (x + 2y - \frac{1}{2}) = \underline{\hspace{10cm}}$$


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$$\frac{1}{5} \cdot (10w - 15x) - (18x - 6w) : 3 = \underline{\hspace{10cm}}$$


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$$(\frac{1}{2}x + 9w) \cdot \frac{1}{3} - (2w - \frac{5}{6}x) = \underline{\hspace{10cm}}$$


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2. Calculate:

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

$$\frac{2}{3} - \frac{5}{6} =$$

$$\frac{3}{4} \times (-\frac{6}{27}) = \underline{\hspace{2cm}}$$

$$\frac{2}{3} \times \frac{4}{9} = \underline{\hspace{2cm}}$$

$$\frac{5}{7}x \cdot \frac{21}{100} = \underline{\hspace{2cm}}$$

$$8x \cdot \frac{3}{4} = \underline{\hspace{2cm}}$$

$$2x \cdot \frac{3}{4} = \underline{\hspace{2cm}}$$

$$12w \times \frac{5}{6} = \underline{\hspace{2cm}}$$

3. Solve the equations:

$$\left| \frac{1}{3}x - 4 \right| : 2 = 3$$

$$3x + |x| = 2$$

4. Indicate the order of operations in the expressions below:

$$3 : x - 4 \cdot y$$

$$5z + 12 \cdot (3x + 1)$$

$$(12x + 4y) : (z + x)$$

$$\frac{x+y}{25 - 4}$$

$$\frac{4x - 2 \times \frac{1}{2}}{3x - 4y}$$

5. How many times do you need to weigh coins on a two cup scale to find a single heavier fake coin among 27 ones?

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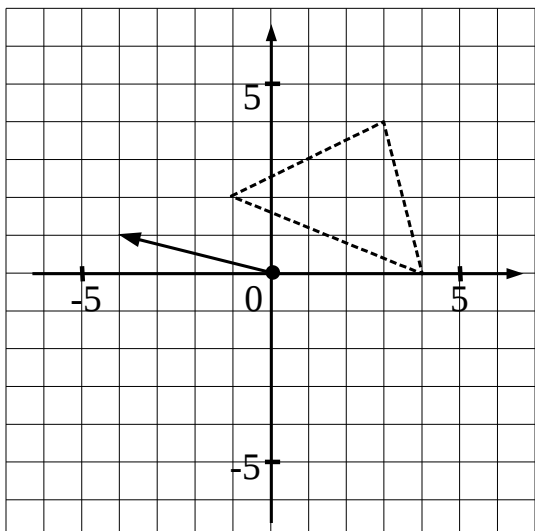
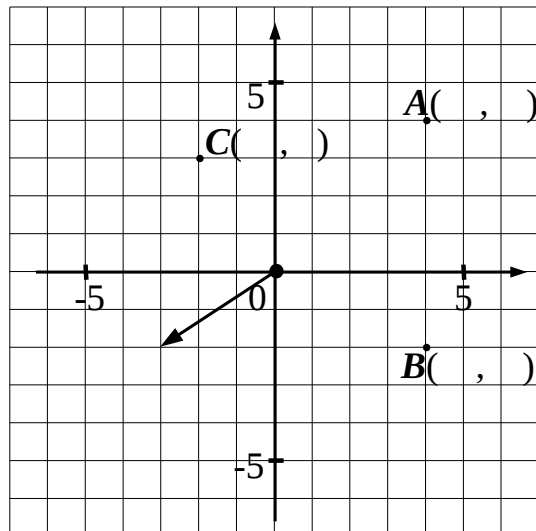
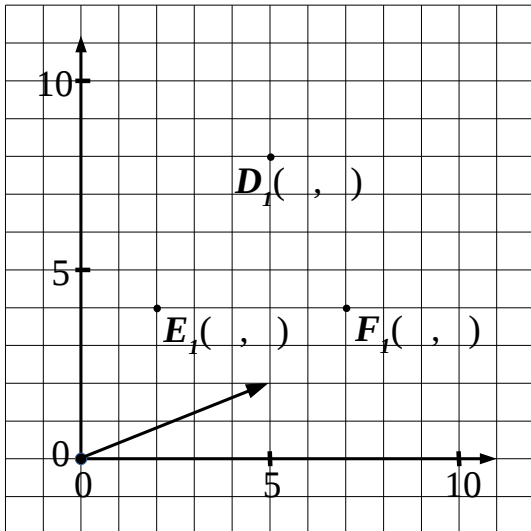


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6. Translate points and shapes according to the instructions given by the arrows:



7. Plot straight line  $KT \perp m$ .

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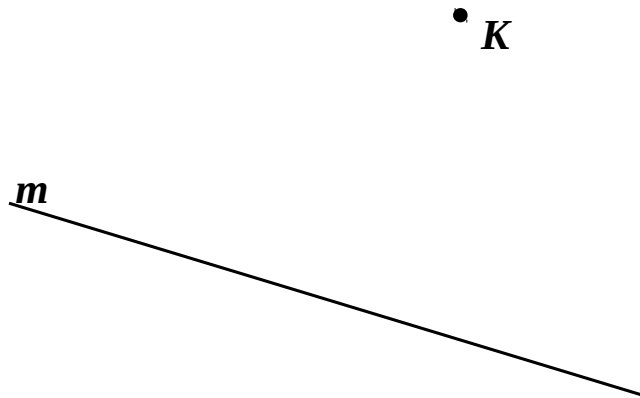
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8. Plot straight line  $KT \parallel m$ .

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