

1. Evaluate:

a.  $\frac{1 - \frac{1}{6}}{2 + \frac{1}{6}};$

b.  $\frac{\frac{1}{2} + \frac{3}{4}}{\frac{1}{2}}$

c.  $\frac{\frac{7}{10} + \frac{1}{3}}{\frac{7}{10} + \frac{1}{2}}$

d.  $\frac{\frac{2}{7} + \frac{1}{14}}{\frac{9}{14} - \frac{3}{7}};$

2. Evaluate:

a.  $3.6 \cdot \frac{2}{9};$

b.  $7\frac{1}{5} - 3.059,$

c.  $\frac{1}{8} : 12.5;$

d.  $2\frac{3}{11} \cdot 0.22$

3. Two friends went out to meet each other. When they met, it turned out that one friend had covered  $\frac{1}{4}$  of the entire distance and 3.2 km. Another friend walked twice as much. What is the total distance they walked?

4. Simplify the expressions:

**Example:**

$$5(a + 2) - 12 = 5a + 5 \cdot 2 - 12 = 5a - 2$$

a.  $9 - 2(c + 4);$

b.  $m - 3(2 - m) + 8;$

c.  $x + 3(x + 5) + 2;$

5. ABCD is a rectangle. Find the coordinates of point D and draw the rectangle.

a.  $A(-9; 2), B(-9; 4), C(-3; 4)$

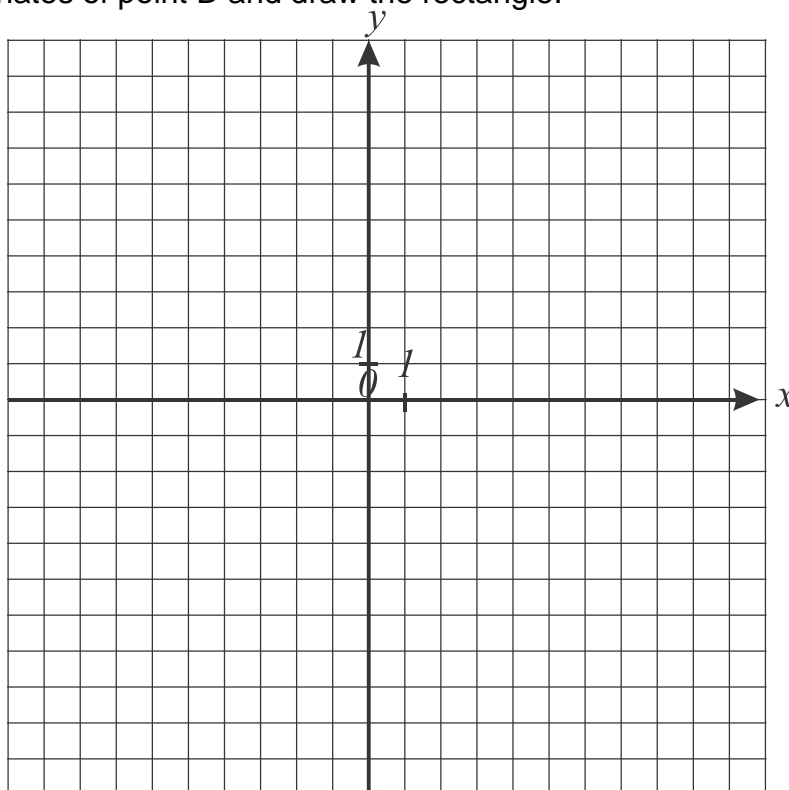
b.  $A(0; 6), B(0; -2), C(5, -2)$

c.  $A(9; 0), B(9, -5), C(2, -5)$

d.  $A(-6; 0), B(-6; -7), C(0; -7)$

6. A car travels  $x$  km in 2 hours and a bus travels  $x$  km in 3 hours. How many times the car is faster than the bus?

7. A snapping turtle and a painted turtle start to go down to the lake at the same time. The snapping turtle is 80 meters from the lake, and he



can crawl 125 cm every 5 minutes. The painted turtle is 16 meters further away from the lake, but he can crawl 12 dm every 4 minutes. Which turtle reaches the lake first if they keep on going by their own speeds and never rest?