

**Simplify the following expressions. Show your work.**

1.  $1.234y + 0.49y$

2.  $2m - 0.074m$

3.  $\frac{3}{5}x + \frac{5}{3}x$

4.  $\frac{8}{9}w - \frac{1}{3}w$

5. Jenny expanded the expression  $8(2y - 3)$  and her answer was  $16y - 3$ . Explain if you agree or disagree with her answer. If you disagree, please show how you would have solved the problem.

6. Solve:  $(-\frac{3}{8}) \div (-\frac{6}{4}) =$

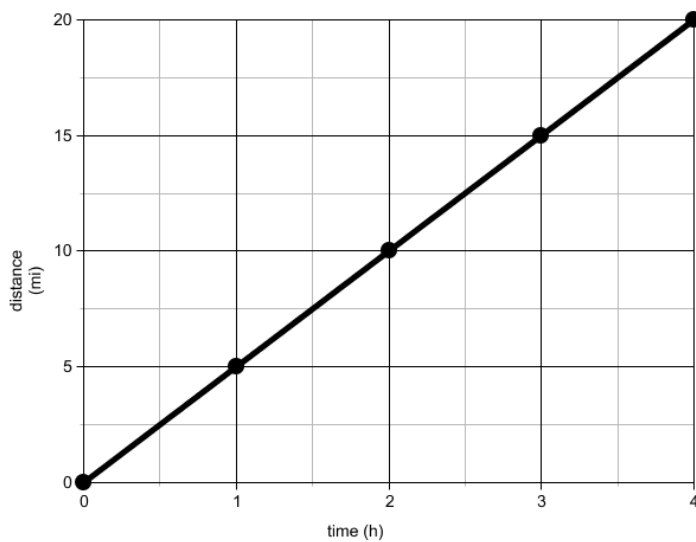
7. Look at the table below and tell whether or not  $y$  is directly proportional to  $x$ .

$x$	1	3	5	8
$y$	6	18	30	48

a) Is this a direct proportion? Explain how you know:

b) If so, write the direct proportion equation.

8. Tell whether the graph represents a direct proportion.



a) Is this a direct proportion? Explain how you know:

b. If so, write the direct proportion equation.