

Word Problems – **answer key**

- a. Harry bought a floor mat for \$21 and an area rug that cost five times as much as the floor mat. How much did he spend on his purchases?

Floor mat + area rug = total purchase price

$$21 + (21 \times 5) = 126$$

\$126

- b. George bought a shirt that was two times as expensive as the jacket he bought. The jacket was \$15. How much did he spend on the shirt?

$$\text{shirt} = 2 \times 15 = 30$$

\$30

- c. Fred went to the bookstore. He bought a book for \$3.49 and a magazine for \$2.67. He gave the cashier \$20.00. How much change did he receive?

$$\$3.49 + \$2.67 = \$6.16 \text{ purchase cost}$$

$$\$20.00 - \$6.16 = \$13.84$$

\$13.84

- d. Pete ran $\frac{1}{3}$ of a kilometer. Ned ran 5 times as far as Pete. Oliver ran 2 km.

$$\text{Pete} = \frac{1}{3}, \text{Ned} = 5 \times \frac{1}{3} = \frac{5}{3} = 1 \frac{2}{3}, \text{Oliver} = 2$$

- a. Who ran the farthest? **Oliver**

- b. If Pete and Ned combined their distances, whose distance would be longer – Pete and Ned's combined distance OR Oliver's distance?

$$\text{Pete} + \text{Ned} = \frac{1}{3} + \frac{5}{3} = \frac{6}{3} = 2\text{km}$$

NEITHER – both distances are the SAME

- e. Ruby's box of cookies weighed $\frac{3}{4}$ pound. Drake's box of cookies weighed five times as much as Ruby's box of cookies. How much did Drake's box of cookies weigh?

$$\text{Drake} = 5 \times \frac{3}{4} = \frac{15}{4} = 3 \frac{3}{4}$$

$3 \frac{3}{4}$ pounds