

Fractions and Decimals

Study Package

1. Write each fraction as a decimal. Show work or mark C if using a calculator.

a) $\frac{3}{4}$ b) $\frac{7}{20}$ c) $\frac{5}{8}$ d) $\frac{9}{25}$ e) $\frac{2}{3}$

2. Write each decimal as a fraction in simplest form.

a) 0.03 b) $1.\bar{4}$ c) 0.45 d) $0.\overline{06}$ e) 9.5

3. Add the following decimals (show work):

a) $23.5 + 0.86$
b) $405.7 + 12.345$
c) $8.901 + 15$

4. Marley biked 4.56 km on Tuesday and 12.3 km on Wednesday. How far did Marley bike altogether?

5. Subtract the following decimals (show work):

a) $23.5 - 0.86$
b) $405.7 - 12.345$
c) $18.902 - 15$

6. A mountain peak is 3,281.45 m tall. A nearby peak is 3,129.8 m tall. How much taller is the first peak?

7. Multiply and draw a diagram or number line (show work):

a) 0.5×7 b) 0.3×8 c) 0.2×5

8. Multiply the following. Write an estimate first:

a) 2.14×3 Est: _____

b) 9.8×1.07 Est: _____

c) 52.6×2.4 Est: _____

9. Find the cost:

a) 1.8 kg of peaches at \$1.25/kg Est: _____

b) 7.4 kg of carrots at \$0.89/kg Est: _____

c) 0.62 kg of berries at \$3.40/kg Est: _____

Order of Operations

10. Complete the following (show each step):

a) $6.2 + 3 \times (4.5 - 1.5)$

b) $(5.1 + 2) \times (7 - 3.5)$

Putting It All Together

11. Emily earns \$18.75 per hour tutoring. Last week she tutored 6 hours.

a) How much money did she earn?

She wants to buy:

- Marker set: \$32.95
- Sketchbook: \$14.50
- Pencil set: \$9.75
- Drawing Desk: \$298.99

b) Does she have enough money?

c) If not, how much more does she need?