

Chapter 5 Warm-Up

Section 5.1

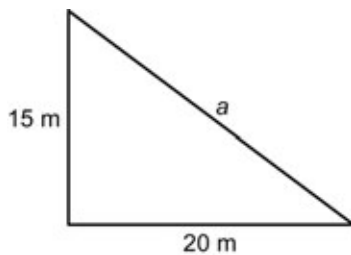
1. What is 0.635 as a percent?
2. What is 249% as a decimal?
3. What is $\frac{3}{8}$ as a decimal?
4. You need to pay 6% PST and 5% GST on an item selling for \$75. Estimate and then calculate the final price.
5. Determine the square of 13.

Mental Math

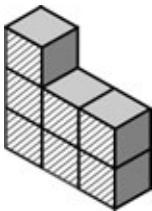
6. Show $\frac{325}{1000}$ in lowest terms.
7. Calculate 2.5% of \$10 000.
8. Calculate $\frac{1}{2}\%$ of 500.
9. Estimate $1\frac{1}{4}\%$ of 250.
10. Estimate 5% GST on \$149.

Section 5.2

1. Is 50 a perfect square? Explain.
2. Calculate the length of hypotenuse a .



3. Sketch and label the top, front, and sides views of an eraser.
4. Rotate the eraser 90° clockwise. Draw the front view.
5. Sketch the top, front, and side views of this solid.



Mental Math

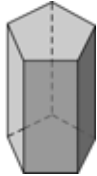
6. Calculate 5.5% of \$2000.
7. Estimate $\frac{1}{4}\%$ of 300.

For #8 to #10, estimate the missing value.

8. $\frac{62}{5} = \frac{\square}{15}$
9. $\frac{9.65 \text{ beats}}{15 \text{ s}} = \frac{\square}{1 \text{ min}}$
10. $\frac{5.3}{40} = \frac{37.1}{\square}$

Section 5.3

- Determine the square of 7.2.
- You earn $4\frac{3}{4}\%$ on a \$600 bond.
What is the bond worth at the end of one year?
- Sketch the top, front, and side views of this solid.



- If you turn the polyhedron from #3 90° degrees counterclockwise, how would the three views change? Sketch and label each new view.

- Sketch a net for a rectangular prism.

Mental Math

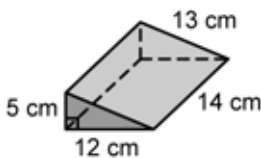
- What figure will this net produce?



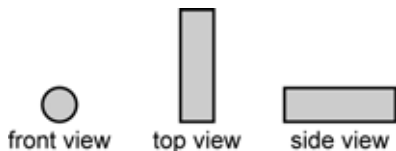
- Calculate 5.75% of \$8000.
- Calculate 2.5% of 1200.
- You want to show 50% on a circle graph. How many degrees do you need for the sector?
- You want to show $33\frac{1}{3}\%$ on a circle graph. How many degrees do you need for the sector?

Section 5.4

- Draw and label the measurements of the three views of this triangular prism.



- Calculate the surface area of the prism in #1.
- Name the solid shown in these views.



- A horse that is working has a heart rate of 18 beats in 15 s. Show this as a unit rate.

- In a band, the ratio of drums to brass instruments is 1 : 5. What percent of the instruments are drums?

Mental Math

- You want to show 75% on a circle graph. How many degrees do you need for the sector?
- Estimate 25.75% of 2500.

For #8 to #10, identify the missing numbers.

8. $\frac{1}{3} = \frac{6}{\square}$

9. $\frac{\square}{21} = \frac{30}{90}$

10. $\frac{\$88}{8} = \frac{\$165}{\square}$