

# Chapter 5 Warm-Up

## Section 5.1

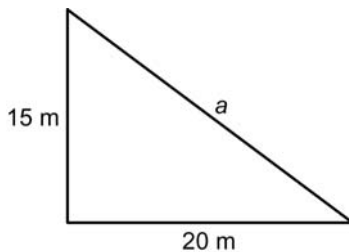
1. What is 0.635 as a percent?
2. What is 249% as a decimal?
3. What is  $\frac{3}{8}$  as a decimal?
4. You need to pay 6% PST and 5% GST on an item selling for \$75. Estimate and then calculate the final price.
5. Determine the square of 13.

## Mental Math

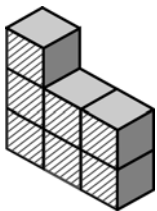
6. Show  $\frac{325}{1000}$  in lowest terms.
7. Calculate 2.5% of \$10 000.
8. Calculate  $\frac{1}{2}\%$  of 500.
9. Estimate  $1\frac{1}{4}\%$  of 250.
10. Estimate 5% GST on \$149.

## 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  $90^\circ$  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.

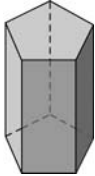
8.  $\frac{62}{5} = \frac{\square}{15}$
9.  $\frac{9.65 \text{ beats}}{15 \text{ s}} = \frac{\square}{1 \text{ min}}$
10.  $\frac{5.3}{40} = \frac{37.1}{\square}$

**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  $90^\circ$  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?

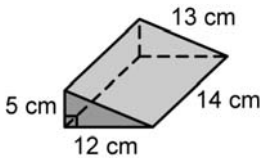


- Calculate 5.75% of \$8000.
- Calculate 2.5% of 1200.
- You want to show 50% on a circle graph. How many degrees do you need for the sector?

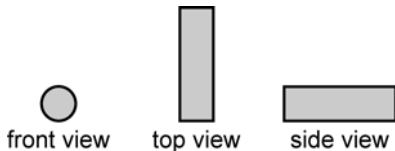
- You want to show  $33\frac{1}{3}\%$  on a circle graph. How many degrees do you need for the sector?

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