## Practice test 1

Answer the following questions without the use of a calculator. Use the review links where needed to help you.

1. Change 1/64 to a decimal. Express the answer to the nearest thousandth.

$$\frac{1}{64} \rightarrow 64\sqrt{1.0000} \rightarrow 0.0156 = 0.016$$

$$\frac{-64\sqrt{1.0000}}{360}$$

$$\frac{-320\sqrt{1.000}}{4000}$$

$$\frac{-384}{384}$$

2. A patient weighed 55.4 kilograms (kg) before getting ill. After a lengthy recovery, the patient weighed 49.7 kg. How much weight did the patient lose?

3. The health care provider ordered 1.5 tablets of a medication to be given to a patient four times a day. How many tablets were prescribed in total for one day?

$$\frac{21.5 \text{ tab}}{4}$$
  $\rightarrow$  6 tablets prescribed in total for one day  $\frac{6.0}{}$ 

4. Solve for x in the following. Round to the nearest tenth. 500:3 = 350:x

$$500:3 = 350:x$$
 $1, 3 \times 350 \times 1000$ 
 $500 \times 1000$ 
 $1050 \times 1000$ 

5. A low-fat cheese has 40 calories (cal) per 30 mL. A patient eats 80 mL of the low-fat cheese. How many cal has the patient eaten? Express the answer as a whole number.

$$\frac{40 \text{ cal}}{30 \text{ mL}} \times \frac{80 \text{ mL}}{1}$$
=  $\frac{3200}{30}$ 
 $\frac{30 \text{ mL}}{1} \times \frac{3013200.0}{180} \rightarrow 106.6 \sim 107 \rightarrow \text{ The patient has}$ 
eaten 107 calories

6. A patient was able to drink 85% of a 1 litre (L) bottle of an X-ray prep. How many mL did the patient drink? Express htis volume in L as well.

7. Convert the following weight to kg. 135 pounds

$$1 \text{ kg} = 2.2 \text{ lbs}.$$
 $135 \text{ lbs} = 2.2$ 
 $135 \text{ lbs} = 2.2$ 

8. A wound measures 4.2 cm in length. Express this distance in mm and metres.

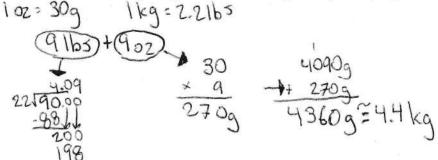
9. Convert the following time to international/military time (24 hour clock) - 9:46 PM

10. Convert the following weight into grams and pounds.

## Practice test 2

Complete each calculation without a calculator.

1. Convert the following weight in pounds to kg - 9 lb, 9 oz.; express the weight in both kg and grams.



-14.09 kg or 4090 g 2. Convert the following length to centimetres - 16.2 in

1 inch = 2.5cm   

$$\frac{\times 2.5 \text{ cm}}{3.248}$$
 $\frac{3.248}{40.50}$ 

3. An IV started at 0550 is to be completed in 5 hr 10 min. Determine the completion time and express as international time (24 hour clock).

= NOO 4. A patient drank 90 millilitres (mL) of a glass of apple juice. This was 75% of the full amount. How many mL was the full amount of apple juice?

5. Solve for x in the following. 11:121 = 3:x

$$x = \frac{121}{11} \times \frac{3}{1}$$

$$= \frac{363}{11}$$
...  $x = 33$ 

6. If 100 grams (g) of ice cream contain 20 g of fat, how many g of fat are there in 300 g of ice cream?

+ There are 60g of fat in 300g of ice seam

$$\chi = \frac{300g}{1} \times \frac{20g}{100g}$$

7. A patient must take four tabs per day for 14 days. How many tablets should the pharmacy supply to fill this order?

9. Perform the indicated operation with decimals.  $0.46 \times 0.17$ 

10. A patient weighed 75.4 kilograms (kg) in February. In March the patient gained 1.6 kg. In April the patient gained 2.2 kg. How much did the patient weigh in April?

## Practice entry test 3

Complete each calculation without using a calculator.

1.A patient is brought into the emergency department with a body temperature of 35.6° C. If the normal body temperature is 37° C, how many degrees Celsius below normal is the patient's temperature?

2. One dose of vaccine is 1.25 mL. How many mL of vaccine is needed to vaccinate 55 patients in a clinic?

3. A medication vial holds 7 millilitres (mL) of medication. If 1.4 mL are withdrawn from the vial, how many mL are left in the vial?

4. If 5 millilitres (mL) of a solution contains 4 mL of water, how many mL of water are in 20 mL of solution?

$$\frac{20 \text{ mL sol}}{1} \times \frac{4 \text{ mL water}}{5 \text{ mL sol}} \rightarrow 16 \text{ mL of water are in the solution}$$

$$= \frac{80}{5} = 16 \text{ mL}$$

5. The nurse is instructed to administer 500 mL of a solution every 8 hours (hr). How many hr will be needed to administer 1 500 mL of solution?

$$x = \frac{1500 \text{ pl}}{500 \text{ pl}} \times \frac{8 \text{ h}}{500 \text{ pl}}$$

$$= \frac{12000}{500}$$

$$= 24$$

6. A patient has received 45% of a 500-mL bag of intravenous (IV) solution. How many mL of IV solution has the patient received?

7. Convert the following weight to kg and g - 6.4 lb

ert the following weight to kg and g - 6.4 lb

$$1 \text{ kg} = 2.2 \text{ lb } 5$$
 $2.90$ 
 $22 \text{ ld } 4.00$ 
 $-\frac{44}{200}$ 
 $-\frac{198}{20}$ 

8. Convert the following time to international time (24 hour clock). 10:19 PM

9. Convert the following to cm and m - 34 mm =

10. Solve for x.

$$\frac{16}{40} = \underline{x}$$

$$x = \frac{16}{40} \times \frac{55}{1} \xrightarrow{3} \frac{316}{55} \xrightarrow{880} \xrightarrow{40} \frac{301}{80} \xrightarrow{880} \xrightarrow{80} \frac{1}{80}$$

$$+ \frac{900}{880}$$

$$+ \frac{900}{880}$$