Contents

4a) Look at the chart below. It shows the measurements of the sides of a triangle. Determine the perimeter of each triangle. Then, find the perimeter of each triangle if the measurements of each side are doubled.
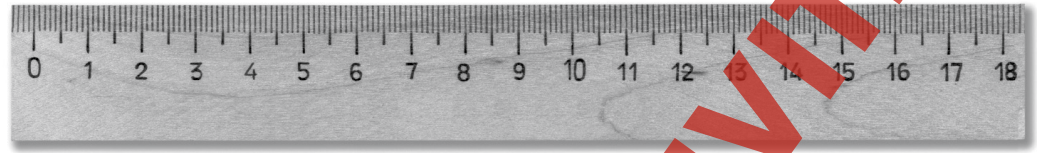
Triangle	Side 1	Side 2 (base)	Side 3	Height	Perimeter	Perimeter if sizes are doubled
i)	3 in (7.5 cm)	6 in (15 cm)	8 in (20 cm)	4 in (10 cm)		
ii)	1.5 in (4 cm)	3.5 in (9 cm)	1.5 in (4 cm)	2.8 in (7 cm)		
iii)	2 in (5 cm)	1.3 in (3 cm)	2.8 in (7 cm)	2 in (5 cm)		
iv)	2 in (5 cm)	7 in (17.8 cm)	12 in (30.5 cm)	8 in (20 cm)		
v)	2.8 in (7 cm)	5 in (12.5 cm)	2.5 in (6 cm)	4.3 in (11 cm)		
vi)	2.5 in (6 cm)	1.5 in (4 cm)	3.3 in (8.5 cm)	1.8 in (4.5 cm)		
vii)	2.2 in (5.5 cm)	1.5 in (4 cm)	4.7 in (12 cm)	3.7 in (9.5 cm)		
viii)	3 in (7.5 cm)	7 in (17.8 cm)	8 in (20 cm)	3 in (7.5 cm)		
ix)	1 in (2.5 cm)	2.5 in (6 cm)	1.3 in (3 cm)	3 in (7.5 cm)		
x)	1.5 in (4 cm)	3.3 in (8.5 cm)	2.5 in (6 cm)	3.2 in (8 cm)		
xi)	3 in (7.5 cm)	6 in (15 cm)	10 in (25.5 cm)	5 in (12.5 cm)		
xii)	1.5 in (4 cm)	3.7 in (9.5 cm)	4.7 in (12 cm)	3.5 in (9 cm)		
xiii)	3.5 in (9 cm)	1.8 in (4.5 cm)	3.2 in (8 cm)	2.5 in (6 cm)		
xiv)	3 in (7.5 cm)	7.5 in (19 cm)	3 in (7.5 cm)	5 in (12.5 cm)		
xv)	6 in (15 cm)	9 in (23 cm)	12 in (30.5 cm)	5 in (12.5 cm)		

Reflection Redo the activity above by finding the area of each triangle. Then, find the area of each triangle if the measurements of each side and height are doubled.

15a) Use a ruler to draw the following plane figure (or 2 dimensional) shapes for each perimeter given. For each perimeter, draw 3 different shapes that equal that measurement.

i) Perimeter = 2 inches
Shape 1   Shape 2   Shape 3

ii) Perimeter = 2.5 inches
Shape 1   Shape 2   Shape 3

iii) Perimeter = 3 inches
Shape 1   Shape 2   Shape 3

iv) Perimeter = 4 inches
Shape 1   Shape 2   Shape 3

v) Perimeter = 5 inches
Shape 1   Shape 2   Shape 3

vi) Perimeter = 4.5 inches
Shape 1   Shape 2   Shape 3

Minutes

2a) Convert the following standard measurements.

Ex: 5 g = _____40_____ p   i) 12 c = _____ q

ii) 60 q = _____ g   iii) 2.5 p = _____ c   iv) 9 q = _____ g

v) 12.5 g = _____ q   vi) 16 p = _____ c   vii) 22 q = _____ g

viii) 18 g = _____ p   ix) 32.5 p = _____ c   x) 15 q = _____ g

xi) 29 c = _____ q   xii) 7.25 g = _____ q   xiii) 19.5 c = _____ p

b) Convert the following metric measurements.

i) 2 L = _____ kL   ii) 50 mL = _____ L   iii) 300 L = _____ kL

iv) 9.5 kL = _____   v) 32.5 L = _____ mL   vi) 2.5 kL = _____ mL

vii) 0.5 L = _____ mL   viii) 2.6 L = _____ kL   ix) 5,216 L = _____ kL

x) 1300 mL = _____ L   xi) 50.26 L = _____ kL   xii) 8.23 kL = _____ mL

xiii) 0.075 kL = _____ L   xiv) 22,000 mL = _____ L   xv) 18.5 L = _____ kL

Minutes

14a) The calendar below shows the daily high and low temperatures in Carver City for a five day period in July. Read the information, then answer the questions that follow.

Monday	Tuesday	Wednesday	Thursday	Friday
High: 75.6°F (24.2°C)	High: 77.2°F (25.1°C)	High: 77.9°F (25.5°C)	High: 78.4°F (25.8°C)	High: 72.7°F (22.6°C)
Low: 58.3°F (14.6°C)	Low: 56.8°F (13.8°C)	Low: 52.5°F (11.4°C)	Low: 60.3°F (15.7°C)	Low: 54.8°F (12.7°C)

i) Calculate the difference between the high and low temperatures for each day.

Day:	Monday	Tuesday	Wednesday	Thursday	Friday
Difference:					

ii) What is the average high for the week? _____

iii) What is the average low for the week? _____

iv) What is the mean temperature for each day?

Day:	Monday	Tuesday	Wednesday	Thursday	Friday
Mean:					

v) What day has the greatest difference between high and low? _____

vi) What day has the smallest difference between high and low? _____

vii) What is the difference between the highest and lowest temperature during the week?

_____

Explore With Technology Find the high and low temperatures for the previous week for your own city and fill out the chart below accordingly.

Day:	Monday	Tuesday	Wednesday	Thursday	Friday
High:					
Low:					
Difference:					
Mean:					

Review A

a) Convert the following measurements.

i) 20 ft = _____ in   ii) 480 mm = _____ cm   iii) 176 oz = _____ lbs

iv) 500 m = _____ km   v) 72 ft = _____ yd   vi) 7.5 kL = _____ L

vii) 128 qts = _____ gallons   viii) 2.5 m = _____ cm   ix) 45 ft = _____ yd

x) 7 km = _____ mm   xi) 4.5 cup = _____ pt   xii) 12 L = _____ mL

xiii) 18.5 ft = _____ in   xiv) 29.7 g = _____ mg   xv) 25 lbs = _____ oz

b) Answer the following quick measurement questions.

i) Jaime measured the temperature of a warm liquid. The temperature started at 72°F (22°C) and dropped 2.5 degrees every minute for three minutes. What was the temperature of the liquid after 3 minutes? _____

ii) A rectangle had an area of 2.5 square inches (16 square cm). What are two possible combinations for the length and width of the rectangle?

_____

iii) Tyrone ran a 5 mile (8 km) race. How many total feet (meters) did he run?
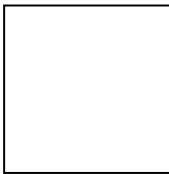
_____

iv) If a car weighs 2.5 tons, how many pounds (kilograms) does it weigh?
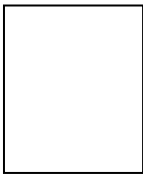
_____

v) A triangle has a base of 6 inches (150 mm) and a height of 1 inch (25.5 mm). What is the area of the triangle? _____

vi) What is the perimeter of a square with a side measuring 3.5 inches (9 cm)?

_____

c) Use a ruler to measure the objects below. Find the area for each object.

i)   ii)   iii)

Area = _____   Area = _____   Area = _____

Review B

a) Convert the following measurements.

i) 2.57 cm = _____ mm   ii) 4.5 ft = _____ in   iii) 12.5 gal = _____ cups

iv) 5.5 km = _____ cm   v) 24 oz = _____ lbs   vi) 0.5 kL = _____ L

vii) 138 in = _____ ft   viii) 175 mm = _____ cm   ix) 30 qt = _____ gallons

x) 19.27 mg = _____ g   xi) 28.5 oz = _____ lbs   xii) 29.25 kg = _____ g

xiii) 22.5 ft = _____ in   xiv) 0.025 kL = _____ L   xv) 2.5 tons = _____ oz

b) Answer the following quick measurement questions.

i) Carlos measured the temperature on a cold winter day at -3°F. What was the temperature in Celsius? _____
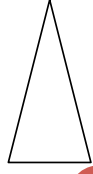
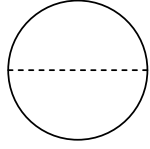ii) A regular pentagon has a perimeter of 12 inches (30.5 cm). What is the measure of each side? _____

iii) Dionne weighed herself and determined she was 85.25 pounds (38.67 kilograms). How many ounces (grams) did she weigh? _____
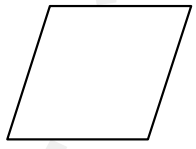
iv) Wan took a car trip with his family. They traveled close to 158.5 miles (255 km) before arriving at their destination after three days. What was the average amount of miles (km) they traveled each day? _____

v) A box has a length of 3 inches (8 cm), width of 2 inches (5 cm), and a height of 2.5 inches (7 cm). What is the volume of the box? _____

c) Use a ruler to measure the objects below. Find the perimeter or circumference for each object.

i)   ii)   iii)

Perimeter = _____   Circumference = _____   Perimeter = _____

Review C

a) Convert the following measurements.

i) 18.3 yd = _____ ft   ii) 1.28 cm = _____ mm   iii) 0.25 tons = _____ lbs

iv) 1.025 m = _____ mm   v) 198 oz = _____ lbs   vi) 7.5 g = _____ kg

vii) 144 qt = _____ gal   viii) 1.25 km = _____ cm   ix) 40.3 ft = _____ in

x) 27.55 kg = _____ g   xi) 24.5 ft = _____ yds   xii) 4.25 km = _____ m

xiii) 25.25 g = _____ mg   xiv) 8.25 ft = _____ in   xv) 0.028 kL = _____ L

b) Answer the following quick measurement questions.

i) Steven measured the length of time it took for a science experiment to be completed. After three trials, his times were 18.25 seconds, 16.75 seconds, and 15.27 seconds. What was the average time for the experiments to be completed? _____

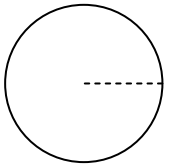ii) A parallelogram has an area of 4.2 sq. in. (27 sq. cm). What are two possible base and height measurements? _____

iii) Diego rode a bike for three consecutive days. He averaged 25.25 miles (40.6 km) each day. How many total feet (meters) had he traveled after three days? _____
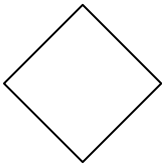
iv) A rectangular box has a length of 3 inches (8 cm), a width of 2 inches (5 cm), and a height of 0.8 inches (2 cm). What is the surface area? _____

v) The radius of a circle is 5 inches (12.5 cm). What is the area of the circle? _____

c) Use a ruler to measure the objects below. Find the area, perimeter and circumference for each object.

i)   ii)   iii)

Area = _____   Area = _____   Area = _____

Perimeter = _____   Circumference = _____   Perimeter = _____

Area of a Circle

Look at the picture of the circle below. Discuss how you can determine the area and perimeter of the circle. Then, in a well developed paragraph, explain how to find the area.

Finally, measure the circle and find the area and perimeter.

Things to consider in your answer:
1. What measurements will you need?
2. What units of measure will you use?
3. How do the measurements you need relate to each other?

Things to consider in your paragraph:
1. Make sure to include a topic sentence and conclusion.
2. Make sure your paragraph contains at least five sentences.
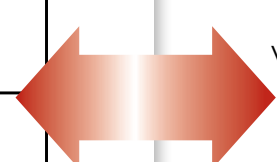3. Make sure to use transition words to help explain your work.

Timed Drill Sheet # 6

9a) Listed below in the first column are the formulas that are used to determine the area, surface area, or perimeter of different shapes. Write the shape that each formula represents in the second column. Then, using a ruler, draw a sample of each shape using inches or centimeters. Determine the area or perimeter for each shape you draw.

Formula	Shape it may represent	Sample Shape	Area	Perimeter
Ex: P = 4 side	Square		A = s² A = (0.8 in/2 cm)² A = 0.64 sq. in/ 4 sq. cm	P = 4 (0.8 in/2 cm) P = 3.2 in/8 cm
i) A = ½ b x h				
ii) P = 3s				
iii) A = l x w				
iv) P = 5s				
v) A = πr²				
vi) P = 2l + 2w				
vii) A = s²				
viii) P = 6s				
ix) A = 6a²				

EASY MARKING ANSWER KEY

9.

a)

i) Triangle or Parallelogram

ii) Triangle

iii) Quadrilateral

iv) Pentagon

v) Circle

vi) Quadrilateral

vii) Square

viii) Hexagon

ix) Cube

Shapes will vary. Areas and Perimeters will vary.

10.

a)

i) Perimeter = 5.2 in (12 cm), Area = 1.69 sq in (9 sq cm)

ii) Perimeter = 4.2 in (10 cm), Area = 1.04 sq in (6 sq cm)

iii) Perimeter = 4 in (10 cm), Area = 1 sq in (6.25 sq cm)

iv) Perimeter = 5.2 in (12 cm), Area = 4.4 sq in (10.6 sq cm)

v) Perimeter = 3 in (7.4 cm), Area = 0.28 sq in (1.7 sq cm)

vi) Perimeter = 5.2 in (13 cm), Area = 1.6 sq in (10 sq cm)

vii) Answers will vary.

viii) Answers will vary.

11.

Answers may vary.

12.

a)

i) 12 ft = 144 in

ii) 0.5 yd = 1.5 ft

iii) 72 in = 2 yds

iv) 7.5 ft = 2.5 yds

v) 2.5 yds = 90 in

vi) 21 ft = 252 in

vii) 78 in = 6.5 ft

viii) 30 yds = 1080 in

ix) 3.3 yd = 118.8 in

x) 42 in = 3.5 ft

xi) 16 in = 1.3 ft

xii) 26.5 yds = 79.5 ft

xiii) 3 m = 3,000 mm

xiv) 2.5 = 250 mm

xv) 19 cm = 190 mm

xvi) 14 m = 1400 cm

xvii) 855 mm = 0.855 m

xviii) 9.5 cm = 0.095 m

xix) 326 mm = 32.6 cm

xx) 29 cm = 290 mm

xxi) 25 cm = 0.25 m

xxii) 1890 mm = 189 cm

13.

a)

i) 22 sq in (137.5 sq cm)

ii) 184 sq in (1150 sq cm)

iii) 192 sq in (1200 sq cm)

iv) 117 sq in (765 sq cm)

v) 324 sq in (2025 sq cm)

vi) 9.5 sq in (58 sq cm)

vii) 1398 sq in (8969 sq cm)

viii) 27 sq in (175 sq cm)

ix) 802 sq in (5118 sq cm)

x) 300 sq in (1924 sq cm)

xi) 216 sq in (1350 sq cm)

xii) 192 sq in (1200 sq cm)

xiii) 304 sq in (1900 sq cm)

xiv) 52 sq in (325 sq cm)

xv) 365 sq in (2334 sq cm)

xvi) 51.5 sq in (328 sq cm)

xvii) 5.5 sq in (33 sq cm)

xviii) 351 sq in (2250 sq cm)

xix) 184.5 sq in (1148 sq cm)

xx) 220 sq in (1387.5 sq cm)