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## TEACHER GUIDE

## STUDENT HANDOUTS

### Measurement – Task Sheets

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✔ **6 BONUS Activity Pages!** **Additional worksheets for your students**

- Go to our website: **www.classroomcompletepress.com/bonus**
- Enter item CC3115
- Enter pass code CC3115D for Activity Pages.

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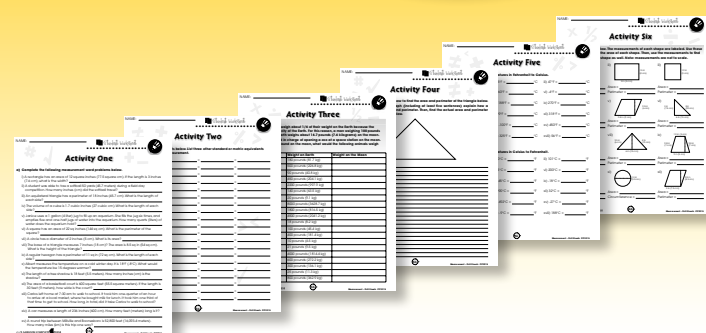
# Task Sheet 4

**A Protracted Arrangement**

**4)** For the following activity, you are going to need a protractor. Then, look at the clues in each box. Draw the angle that is being described with the clue. Then, write how many degrees each angle will have.



**Angle One:** Draw an angle that equals one-half a right angle.

How many degrees is the angle? _____

**Angle Two:** Draw a supplementary angle to an angle that is 100°.

How many degrees is the angle? _____

**Angle Three:** Draw a complementary angle to an angle that is 60°.

How many degrees is the angle? _____

**Angle Four:** Draw an angle that is one-third the size of a 45° angle.

How many degrees is the angle? _____

**Angle Five:** Draw an angle that equals one and one-half right angles.

How many degrees is the angle? _____

**Angle Six:** Draw an angle that is 30° less than a straight angle.

How many degrees is the angle? _____

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NAME: _____

# Task Sheet 12

**Dining In**

**12)** Janelle works at the Carroll Café, a small restaurant near her school. The following is a partial copy of the lunch menu found at the restaurant. Use the menu to answer the questions below.

**CARROLL CAFÉ - Lunch Menu**

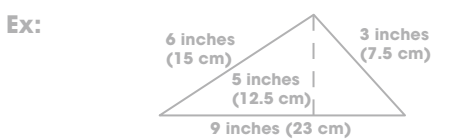| Sandwiches | Sides | Beverages |
|---|---|---|
| Vegetarian Pocket .. $4.99 | Fruit Cup ........ $3.99 | Soft Drinks |
| Meatball Sub ........... $4.99 | Salad ............. $3.99 | Small ...... $1.00 |
| Cold Cut Sub ........... $5.99 | Breadsticks .... $4.99 | Medium .. $1.50 |
| Chicken Cutlet ........ $7.99 | Potato Skins .... $5.99 | Large ..... $2.00 |



**a)** Janelle's first customer ordered a meatball sub, a fruit cup, and a medium soft drink. What was the customer's total before tax?

_____

**b)** One item on the menu is approximately 1/8 the cost of another item. Name both items.

_____

**c)** Janelle's second customer ordered a sandwich, a side, and a beverage totaling $15.98 before tax. What three items did the customer order?

_____

**d)** If a customer ordered a small soft drink, a salad, and a cold cut sub, and there was a 5 percent meal tax on the total, how much would the customer spend in total on the meal?
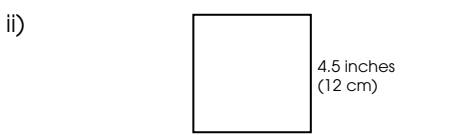
_____

**Explore With Technology** Find out the local meal tax in your location. Write the tax rate below. How does it compare to the rate charged at the Carroll Café?
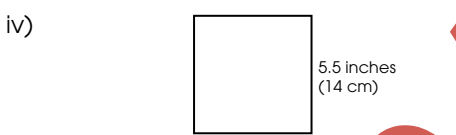
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NAME: _____

## Timed Drill Sheet # 2

**Minutes**

**3a)** Look at the shapes below. The sides of each shape are given. Provide the area and perimeter for each shape.

**Ex:**

6 inches (15 cm), 3 inches (7.5 cm), 5 inches (12.5 cm), 9 inches (23 cm)

**Area = 22.5 sq in (143.75 sq cm)**
**Perimeter = 18 (45.5 cm)**
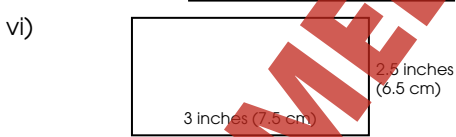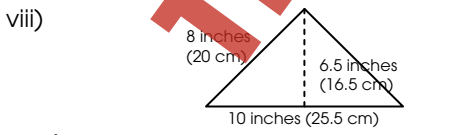
**ii)** 4.5 inches (12 cm)

Area = _____
Perimeter = _____

**iv)** 5.5 inches (14 cm)

Area = _____
Perimeter = _____

**vi)** 2.5 inches (6.5 cm), 3 inches (7.5 cm)

Area = _____
Perimeter = _____

**viii)** 8 inches (20 cm), 6.5 inches (16.5 cm), 10 inches (25.5 cm)

Area = _____
Perimeter = _____

**i)** 0.8 inches (2 cm), 1.5 inch (4 cm)

Area = _____
Perimeter = _____

**iii)** 1.2 inches (3 cm), 2 inch (5 cm)

Area = _____
Perimeter = _____

**v)** 8.5 inches (21 cm), 4.5 inches (11.5 cm), 3 inches (7.5 cm), 7 inches (17.5 cm)

Area = _____
Perimeter = _____

**vii)** 3 inches (8 cm), 4 inches (10 cm)

Area = _____
Perimeter = _____

**ix)** 3 inches (8 cm), 4.5 inches (12 cm)

Area = _____
Perimeter = _____

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NAME: _____

## Warm-Up Drill Sheet # 4
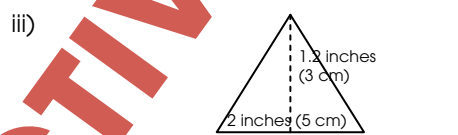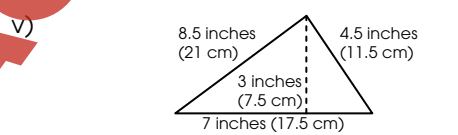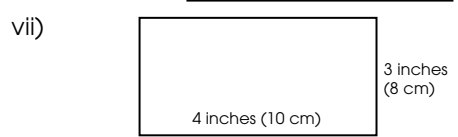
**10a)** Draw the following shapes described below using a ruler. Then, find the perimeter and area of the shape you have drawn.
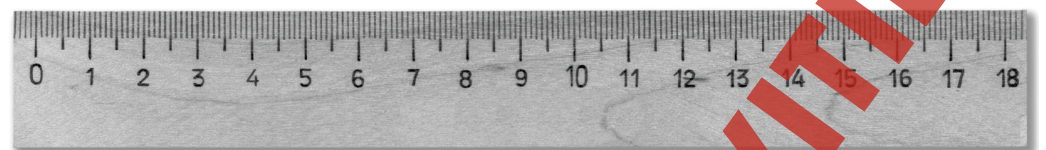
i) A square with a side of 1.3 in (3 cm).

Perimeter: _____
Area: _____

ii) A rectangle with a length of 0.8 in (2 cm) and a width of 1.3 in (3 cm).

Perimeter: _____
Area: _____

iii) A square with sides all equal to 1 in (2.5 cm).

Perimeter: _____
Area: _____

iv) A parallelogram with all sides equal to 1.3 in (3 cm) and a height of 0.9 in (2.3 cm).

Perimeter: _____
Area: _____

v) An equilateral triangle with a side of 0.8 in (2 cm) and a height of 0.7 in (1.7 cm)

Perimeter: _____
Area: _____

vi) A rectangle with a length of 1.6 in (4 cm) and a width of 1 in (2.5 cm).

Perimeter: _____
Area: _____

vii) An isosceles triangle with two congruent sides of your choice and height of your choice.

Perimeter: _____
Area: _____

viii) A rectangle where the length is 2 times the width. You may choose the measurements.

Perimeter: _____
Area: _____

# Drill Sheet 1

**Conversions**

**a)**

| | | |
|---|---|---|
| 1.5 m = _____ cm | 27 ft = _____ yards | 180 in = _____ ft |
| 2.5 oz = _____ lbs | 2.5 g = _____ mg | 25 ton = _____ lbs |
| 4 cups = _____ pints | 330 L = _____ kL | 2 gallons = _____ quarts |
| 18 ft = _____ yds | 2.5 km = _____ m | 27 yd = _____ in |

**Area and Perimeter**

Look carefully at the three figures below. Calculate the area and perimeter using the measurements provided.

10 cm

6 cm

7 in　　7 in

3 in

7 in

4 m

**b) Area:** _____　**c) Area:** _____　**d) Area:** _____

**Perimeter:** _____　**Perimeter:** _____　**Perimeter:** _____

**Short Answers**

**e)** What is the volume of a tank with a length of 4 feet (1 meter), width of 5 feet (2 meters), and a height of 3 feet (0.9 meters)?

**f)** What temperature is 20° below the boiling point on the Fahrenheit (Celsius) scale?

**g)** An angle that is four-fifths the size of a right triangle would be this many degrees.

**h)** What is the formula for finding the area of a circle?

**i)** How many meters (feet) are in a 5 km (3 mile) race?
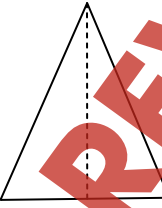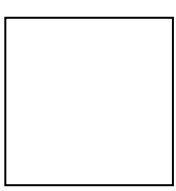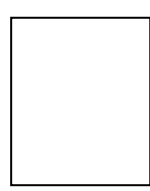
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# Review A

**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)

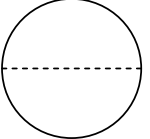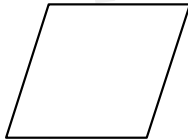Area = _____　　Area = _____　　Area = _____

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# 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 = _____

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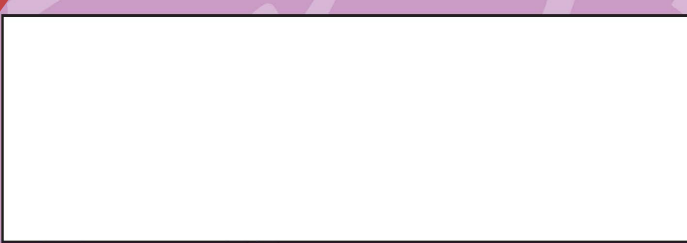# Surface Area of a Rectangular Prism

Obtain a box or other rectangular prism. Working alone or in a small group, devise a plan to determine the surface area of the box without measuring any of the sides.

**Then, do the following.**

1. Explain your plan. _____

2. Test your plan. Did it work? _____

3. Take measurements of your box. Make sure to identify the main measurements needed for your box. _____

4. Calculate the surface area of the box. _____

5. Compare the surface area you determined by your calculations to the surface area you determined by using your plan. _____

6. Write your findings in a well organized paragraph. _____

7. Draw a diagram of your box. Label all of the essential measurements you took to determine the surface area.
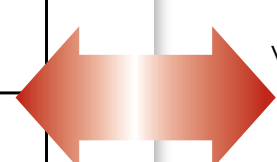
*Timed Drill Sheet # 6*

**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 <br> A = (0.8 in/2 cm)² <br> A = 0.64 sq. in/ 4 sq. cm | P = 4 (0.8 in/2 cm) <br> 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.

*37*

**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.

*38*

**11.**

Answers may vary.

*39*

**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

*40*

**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)

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