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STUDENT HANDOUTS

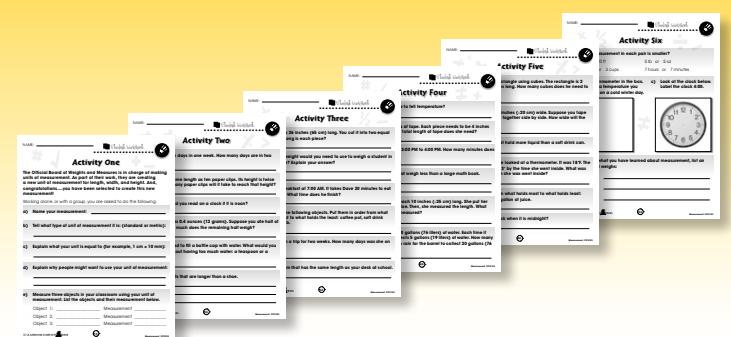
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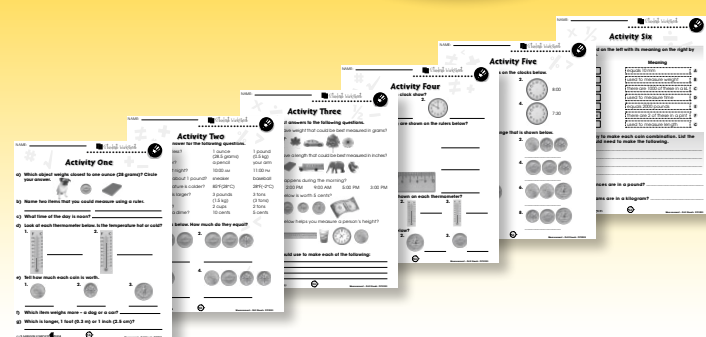
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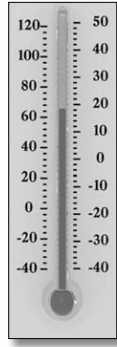




Task Sheet 5

- 5) A thermometer is a handy tool. It can be used to measure temperature.

For this activity, you will need a thermometer that can be placed into water. You will also need a small cup of water. It should be cool enough to drink, but not too cold. Also, you will need a small cup of beverage (juice, water, or a soft drink) from a refrigerator. Make sure to have an adult help you.



- a) Look at the two cups. With the help of an adult, carefully touch them. Then, think about what you know about temperature. What temperature, in Fahrenheit, do you think each cup will be?

Cup from refrigerator _____ Cup from faucet _____

- b) Use a thermometer. Find the temperature, in Fahrenheit, for each cup.

Cup from refrigerator _____ Cup from faucet _____

- c) With the help of an adult, put the cups in your freezer. Keep them inside for five minutes. Then, find the temperature for each cup.

Cup from refrigerator _____ Cup from faucet _____



Task Sheet 8

- 8) The word *area* is the amount of space objects take up. This helps people learn the size of an object.

On the graph paper, draw a square. Use the ruler to make sure that each side is about two inches long. Then, on another section of the paper, draw a rectangle. Use a ruler to make sure it is 2 inches high and 3 inches long.



- a) Look at your two shapes, but do not count the small boxes inside the shapes. How many boxes do you think you will find inside your:

square: _____ boxes rectangle: _____ boxes

- b) Now, find the area of the shape. Count the number of boxes inside the shape. How many boxes are in each shape?

square: _____ boxes rectangle: _____ boxes



- 3a) Circle the item that weighs more in each pair.

- | | | | |
|-------------------|--------------|-------------------|-------------|
| 1) flower | bowling ball | 2) large dog | duck |
| 3) tree | bird | 4) bench | garden hose |
| 5) leaf | squirrel | 6) nest | sheep |
| 7) teeter totter | rose | 8) lion | basketball |
| 9) school bus | tricycle | 10) baseball hat | wheelbarrow |

Explore With Technology



Choose three items listed above. With the help of an adult, use a computer or the Internet to find the approximate weight of each item.



- 10a) Draw the hands on each clock below to show the time given.

- Ex: 1:00 o'clock
- 1) 6:00 o'clock
- 2) 9:00 o'clock
- 3) 12:00 o'clock
- 4) 10:30 o'clock
- 5) 6:30 o'clock
- 6) 4:20 o'clock
- 7) 11:40 o'clock
- 8) 11:45 o'clock
- 9) 4:15 o'clock



Drill Sheet 1

1) Tell which unit you would use to measure the length of each object: inches or feet

- a) car _____
- b) eraser _____
- c) shoe _____
- d) house _____
- e) your yard _____
- f) pen _____
- g) dog _____
- h) birthday card _____
- i) building _____
- j) kite _____
- k) town _____
- l) goldfish _____

Circle what you think is the best estimate for the weight or volume of each object

- m) Grape: 1 g 1 kg
- n) Basketball: 1 oz 1 lb
- o) Fish bowl: 1 gallon 1 cup
- p) Sneaker: 2 oz 2 lbs
- q) Cat: 9 lbs 79 oz
- r) Whale: 5 lb 5 tons
- s) Large TV: 20 oz 20 lbs
- t) Nickel: 1 g 1 mg
- u) Back pack: 10 lbs 10 tons
- v) Soft drink can: 1 mL 1 L



Review A

a) Circle the picture that shows a penny.



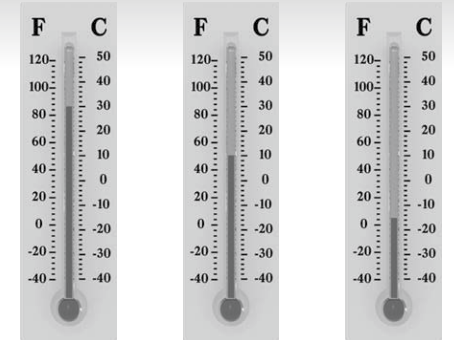
b) Circle the picture that shows the hour hand on the 1.



c) Circle the ruler at 15 cm.



d) Circle the thermometer that shows the temperature on a cold day.



e) Circle the dime.



f) Circle the clock that shows the minute hand on the six.



Review B

How much money is shown below?

Answer:

Answer:

- a) _____
- b) _____
- c) _____
- d) _____
- e) _____
- f) _____
- g) _____
- h) _____

i) How long is the ruler below in inches? _____



j) Circle the ruler at 10 and 25 centimeters.

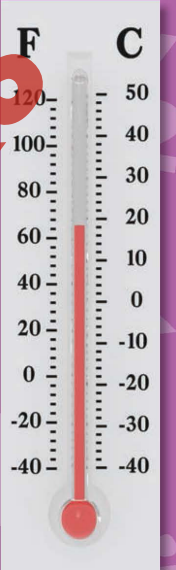


k) Circle the picture that shows a time of 1:00.



Warm and Cool

Thermometers are used for measuring temperature. This helps determine how warm or cool an object feels. For this activity, you will need to use a thermometer to measure outside air temperatures. With the help of an adult, measure the temperature at the same time each day for five days. Record the temperature. Then, discuss what you recorded.



- Day One temperature: _____
- Day Two temperature: _____
- Day Three temperature: _____
- Day Four temperature: _____
- Day Five temperature: _____

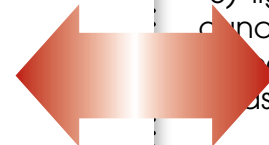
What did you see?

1. Did the temperatures get warmer or colder? _____
2. Which day was warmest? _____
3. Which day was coldest? _____
4. What do you think the temperature will be if you took it on Day Six? _____



4a) For each item below, circle the best unit you would use to measure the weight.

1)  Car ounces/pounds (grams)/(kilograms)	2)  Jar ounces/pounds (grams)/(kilograms)
3)  Eraser ounces/pounds (grams)/(kilograms)	4)  Rhinoceros ounces/pounds (grams)/(kilograms)
5)  Light bulb ounces/pounds (grams)/(kilograms)	6)  Computer ounces/pounds (grams)/(kilograms)
7)  Whale ounces/pounds (grams)/(kilograms)	8)  CD ounces/pounds (grams)/(kilograms)
9)  Baseball ounces/pounds (grams)/(kilograms)	10)  Pencil ounces/pounds (grams)/(kilograms)



EASY MARKING ANSWER KEY

<p>4.</p> <p>a)</p> <p>1) car = pounds (kilograms) 2) jar = ounces (grams) 3) eraser = ounces (grams) 4) rhinoceros = pounds (kilograms) 5) light bulb = ounces (grams) 6) computer = pounds (kilograms) 7) whale = pounds (kilograms) 8) CD = ounces (grams)</p> <p>b)</p> <p>1) ounce (gram) 2) feet (meters) 3) gallons (liters) 4) tons</p> <p>32</p>	<p>5.</p> <p>a)</p> <p>1) A small dog weighs 5 pounds (2.3 kilograms) 2) The height of a door might be 6 feet (2 meters) 3) An elephant might weigh 2 tons 4) A soft drink can might hold 8 ounces (227 grams) 5) The length of a paperclip might be 1 inch (2.5 cm)</p> <p>b)</p> <p>1) ounce (gram) 2) feet (meters) 3) gallons (liters) 4) tons</p> <p>33</p>	<p>6.</p> <p>a)</p> <p>1) 9:00 2) 2:00 3) 6:30 4) 7:00 5) 5:00 6) 11:00 7) 8:30 8) 10:00 9) 1:30</p> <p>34</p>	<p>7.</p> <p>a)</p> <p>1) 2 inches (5 cm) 2) 1 inch (2.5 cm) 3) 3 inches (7.5 cm) 4) 2.5 inches (6 cm) 5) 1.5 inches (4 cm)</p> <p>b)</p> <p>Check to make sure the student drew the correct lengths.</p> <p>35</p>
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Reflection List three other items you could add to this list. Would you measure these items in ounces (grams) or pounds (kilograms)?

