Fifth Grade Cluster 6 Assessment - Measurement Conversion

This assessment assesses students' ability to:

- Convert between centimeters, meters, and kilometers
- Convert between inches, feet, and yards
- Convert between grams and kilograms
- Convert between ounces and pounds
- Convert between milliliters and liters
- Convert between cups, pints, quarts, and gallons
- Convert between seconds, minutes, and hours

NCSCOS 2017 Standards:

Standard	Questions
NC.5.MD.1	1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Fifth Grade Cluster 6 Assessment - Measurement Conversion

Question	Standard	Answer
1	NC.5.MD.1	С
2 ,	NC.5.MD.1	В
3	NC.5.MD.1	С
4	NC.5.MD.1	A
5	NC.5.MD.1	D

Question	Standard	Answer
6	NC.5.MD.1	A
7	NC.5.MD.1	$\frac{3}{2}$ or $1\frac{1}{2}$
8	NC.5.MD.1	16
9	NC.5.MD.1	4
10	NC.5.MD.1	24,500

Student Name:	Date:

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- 1. Rosalita is making chocolate chip cookies.
- 24×16 $\frac{36}{-20}$ $\frac{16+16+4=3602}{1662}$
- She needs 20 ounces of chocolate chips.
- She has $2\frac{1}{4}$ pounds of chocolate chips.
- There are 16 ounces in 1 pound.

How many ounces of chocolate chips will Rosalita have left after she makes her cookies?

A 5 ounces

16 ounces

- B 7 ounces
- D $17\frac{3}{4}$ ounces
- 2. Eliot's backpack weigh 4,200 grams. 1 kilogram is 1,000 grams. How many kilograms does Eliot's back weigh?

A $4\frac{2}{1000}$ kilograms

C 42,000 kilograms

D 420,000 kilograms

- B $4\frac{2}{10}$ kilograms $\frac{4200}{1000} = \frac{42}{10} = 4.2$
- 3. Lamar is a football player. In his best play, he ran 48 yards with the football scoring a touchdown. One yard is equal to three feet. How many feet did Lamar run with the football to score the touchdown?

A 4 feet

- B 16 feet
- 4. Adam wanted to play his video games. His mother told him that he needed to finish his homework, clean out the dishwasher, and clean his room before playing video games.
 - He completed his homework in 48 minutes.
 - He took 25 minutes to clean out the dishwasher.
 - He took 75 minutes to clean his room. 1hr 15mm

There are 60 minutes in 1 hour. How much time did Adam have to spend doing homework and cleaning before playing video games?

A 2 hours, 28 minutes

B 2 hours, 46 minutes

C 14 hours, 8 minutes

D 148 hours

- 5. Carolina is making punch for a party.
 - She made 6 bowls of punch.
 - Each bowl holds $2\frac{1}{2}$ gallons of punch.
 - 1 gallon is equal to 4 quarts.

She thinks each person will drink about 1 quart of punch. How many people will the 6 bowls of punch serve?

- A 10
- C 45

В	30
D	60

6×2½ 6+6+3=15 ×4

- 6. The kindergarten teachers bought fruit flavored juice boxes for their End-of-Year party.
 - Each individual juice box contains 225 milliliters of juice.
 - Each package contains 8 boxes.
 - There are 1,000 milliliters in 1 liter.

If the kindergarten teachers bought 5 packages, how many liters of juice did each teacher buy?

- A 9 liters
- C 1,800 liters

B 90 liters

D 9,000 liters

Gridded Response Questions:

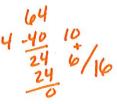
7. Courtney bought 12 pints of orange juice. If there are 8 pints in 1 gallon, how many gallons of orange juice did she buy? $\frac{12}{8} = 1\frac{4}{8} = 1\frac{1}{2}$

Answer:

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8. Jacob has served 64 cups of juice for breakfast guests at his restaurant. One quart is equal to 4 cups. How many quarts of juice did Jacob serve?

Answer:



9. Bentley has a dog pen that is 144 inches long. There are 36 inches in one yard. How many yards long is Bentley's pen?

144 36 <u>-72</u> 2 <u>-72</u> 2 <u>-72</u> 2/4 Answer:

10. Celeste walked $24\frac{1}{2}$ km this week for exercise. There are 1,000 meters in 1 kilometer. How many meters did Celeste walk?

Answer:

24 ± × 1000 24 × 1000 + ± × 1000 24000 + 500 24500