TEST NAME: **Multiplying/Dividing Fractions/Line Graphs/Metric-Customary Review**
TEST ID: **4501807**
GRADE: **05 - Fifth Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **Shared Classroom Assessments**

Student: _____

Class: _____

Date: _____

1. A piece of string measures 480 mm. How many cm long is the string?

   (Note: 1 mm = $\frac{1}{10}$ cm)

   A. 4,800 cm

   B. 480 cm

   C. 48 cm

   D. 4.8 cm

2. A conversion chart is shown.

Conversion Chart
8 ounces = 1 cup
2 cups = 1 pint
2 pints = 1 quart
4 quarts = 1 gallon

   Fiona made 4 pints of lemonade. How many cups of lemonade did Fiona make?

   A. 2

   B. 4

   C. 6

   D. 8

3. A conversion chart is shown.

Conversion Chart

1 centimeter = 10 millimeters

A pencil is 18.4 centimeters long. What is the length of the pencil in millimeters?

A. 0.184 millimeters

B. 1.84 millimeters

C. 184 millimeters

D. 1,840 millimeters

4. This table shows equivalent lengths in different units.

Measurement	Equivalent Measurement
1 foot	12 inches
1 yard	3 feet
1 mile	5,280 feet
1 mile	1,760 yards

A tree is 6 yards tall. How tall is the tree in feet?
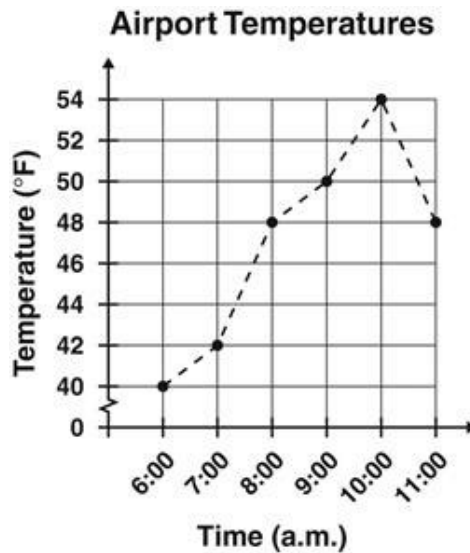
A. 2 feet

B. 9 feet

C. 12 feet

D. 18 feet

5. **The chart below shows 6 months of a company's sales figures.**

Sales Profile

Between which 2 months did sales decrease the most?

A. July to August

B. May to June

C. April to May

D. August to September

6. **The graph below shows the changes in temperature at an airport over a period of 5 hours.**

Airport Temperatures

Between which two times did the greatest increase in temperature occur?

A. 6:00 a.m. and 7:00 a.m.

B. 7:00 a.m. and 8:00 a.m.
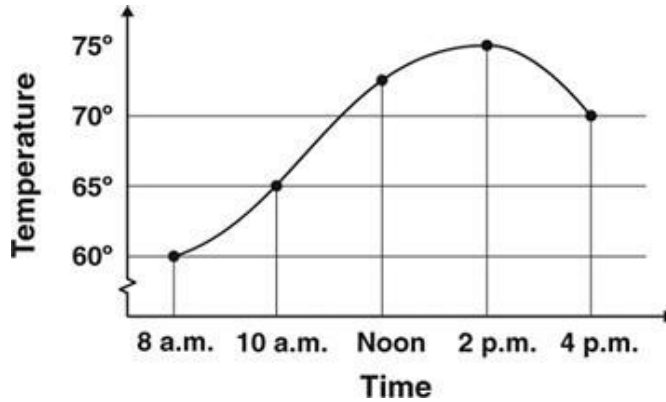
C. 9:00 a.m. and 10:00 a.m.

D. 10:00 a.m. and 11:00 a.m.

7. **A town recorded its population every 10 years. The results are shown in the graph.**
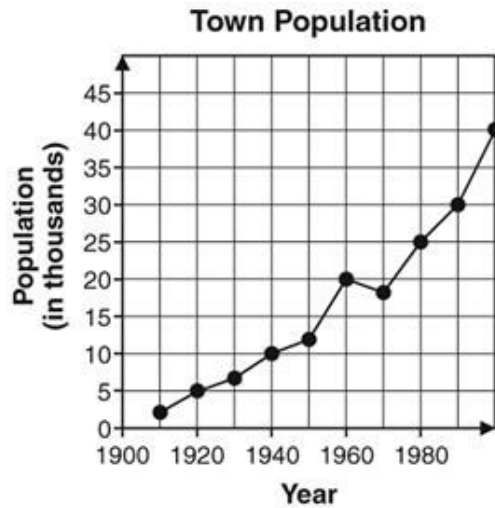
Town Population

What was the town population in the year 1960?

A. 20
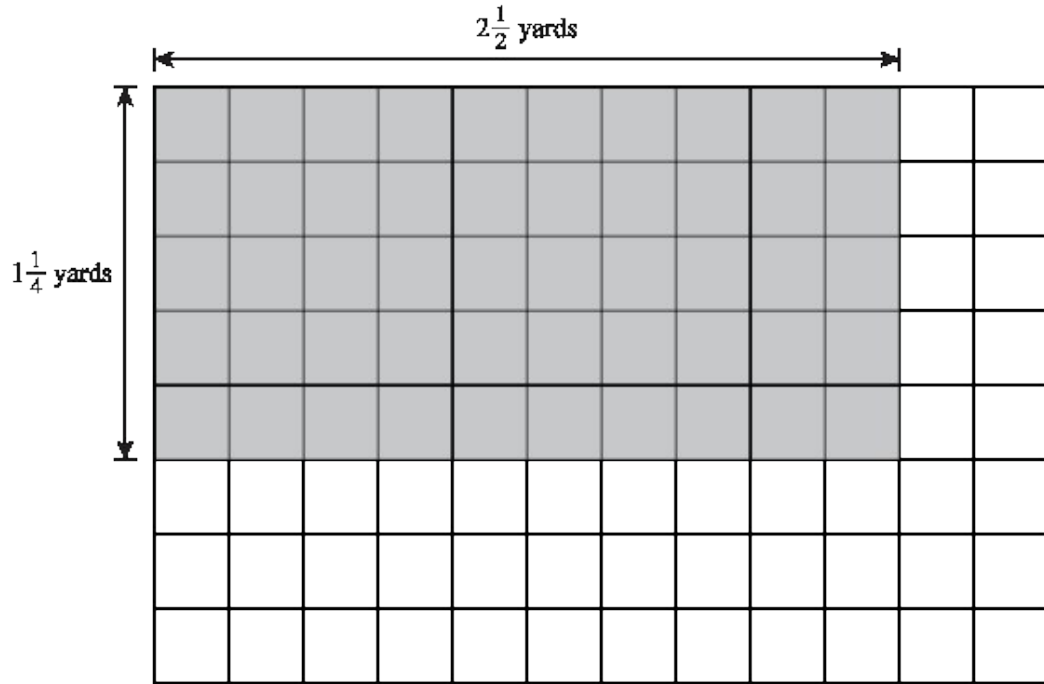
B. 200

C. 2000

D. 20,000

8. **The graph below shows the temperature as it varied during a certain day.**

In which of the following 2-hour time periods did the temperature change the MOST?

A. 8 a.m. to 10 a.m.
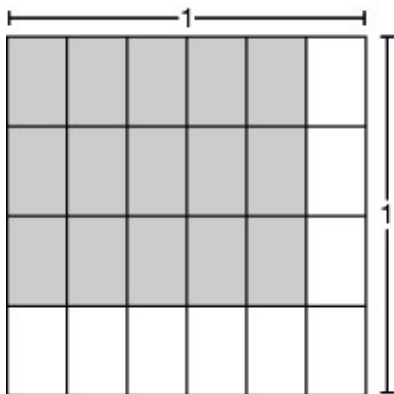
B. 10 a.m. to noon

C. noon to 2 p.m.

D. 2 p.m. to 4 p.m.

9. A rectangular garden is $2\frac{1}{2}$ yards long and $1\frac{1}{4}$ yards wide as shown in the diagram.

$2\frac{1}{2}$ yards

$1\frac{1}{4}$ yards

What is the area, in square yards, of the garden?

A. $\frac{50}{96}$ square yards

B. $2\frac{1}{8}$ square yards

C. $3\frac{1}{8}$ square yards

D. $3\frac{2}{6}$ square yards

10. Which equation **correctly** represents the area of the shaded rectangle shown below?

A. $3 \times 5 = 15$

B. $\dfrac{3}{4} \times \dfrac{5}{6} = 15$

C. $\dfrac{3}{4} \times \dfrac{5}{6} = \dfrac{15}{24}$

D. $\dfrac{15}{24} \times 1 = \dfrac{15}{24}$

11. Taylor's rectangular garden is $5\dfrac{3}{4}$ feet long and $4\dfrac{1}{2}$ feet wide. What is the area, in square feet, of the garden?

A. $9\dfrac{4}{6}$ square feet

B. $20\dfrac{2}{4}$ square feet

C. $20\dfrac{3}{8}$ square feet

D. $25\dfrac{7}{8}$ square feet

12. A rectangle has a width of $2\frac{1}{4}$ inches and a height of $\frac{5}{8}$ inch. Which of the following equations describes the area of the rectangle?

A. $\frac{2}{4} \times \frac{5}{8} = \frac{10}{32}$ square inch

B. $\frac{9}{4} \times \frac{5}{8} = \frac{14}{12}$ square inches

C. $\frac{7}{4} \times \frac{5}{8} = \frac{35}{32}$ square inches

D. $\frac{9}{4} \times \frac{5}{8} = \frac{45}{32}$ square inches

13. Stephanie draws a rectangle with a width of $\frac{2}{5}$ inch and a length of $\frac{3}{5}$ inch. What is the area of the rectangle?

A. $\frac{6}{5}$ square inches

B. $\frac{5}{5}$ square inch

C. $\frac{6}{25}$ square inch

D. $\frac{5}{25}$ square inch

14. Emily is saving money to buy a new bike. Each week she saves $\frac{2}{7}$ of the total needed by saving her allowance. It has been 4 weeks. Which statement is **true** about the money Emily has saved?

A. Emily has saved enough money for two new bikes.

B. Emily has a little more money than she needs for the new bike.

C. Emily will need to keep saving to have enough money for the new bike.

D. Emily has exactly enough money for the new bike.

15. Mr. Lind drew this rectangle.

$1\frac{1}{4}$ feet
$4\frac{1}{2}$ feet
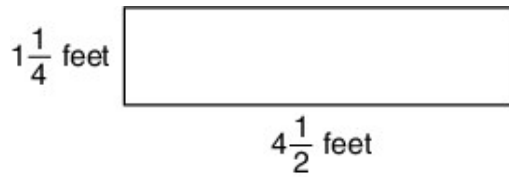
What is the area, in square feet, of the rectangle?

A. $3\frac{3}{5}$ square feet

B. $5\frac{5}{8}$ square feet

C. $5\frac{3}{4}$ square feet

D. $11\frac{1}{2}$ square feet

16. Which statement is **true** when a whole number is multiplied by an improper fraction?

A. The product will be less than 1.

B. The product will be less than the original whole number.

C. The product will be greater than the original whole number.

D. The product will be a whole number equal to the original whole number with no remaining fraction.

17. On a rainy day, Parker and his mom watched movies for $2\frac{2}{3}$ hours. They played games for $1\frac{1}{4}$ times as long as they watched movies. How many hours did Parker and his mom play games?
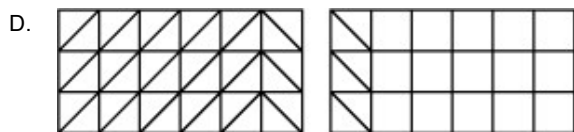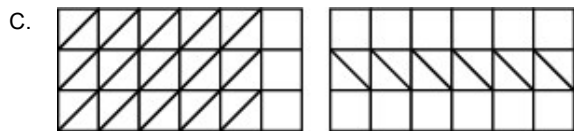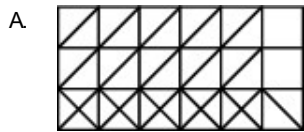
A. $2\frac{2}{15}$ hours

B. $2\frac{1}{6}$ hours

C. $3\frac{1}{3}$ hours

D. $3\frac{3}{7}$ hours

18. Last night, Davis did homework for $\frac{5}{6}$ of an hour. He spent $\frac{1}{3}$ of that time working on math. Which model shows the fraction of an hour he worked on math?

A.

B.

C.

D.

19. Susan bought 12 colored pencils. Of these pencils, $\frac{1}{2}$ were red, and $\frac{1}{3}$ were green. How many more red pencils than green pencils did Susan buy?

   A. 2

   B. 4

   C. 6

   D. 10

20. Mr. Chen asks his students to name their favorite subject and finds that $\frac{2}{3}$ of the students like math best. Of the students that like math, $\frac{2}{3}$ like to draw graphs. What fraction of Mr. Chen's total class does the $\frac{2}{3}$ that like to draw graphs represent?

21. What is $4 \div \frac{1}{2}$?

   A. $\frac{1}{8}$

   B. $\frac{1}{6}$

   C. 6

   D. 8

22. Three people equally shared $\frac{1}{2}$ pound of raisins equally. What fraction of a pound of raisins did each person get?

   A. $\frac{1}{6}$

   B. $\frac{1}{5}$

   C. $\frac{1}{3}$

   D. $\frac{2}{5}$

23. How many $\frac{1}{6}$-pound servings are in 10 pounds of chicken?

   A. 160

   B. 60

   C. 16

   D. $\frac{10}{6}$

24. Dawn had $\frac{1}{6}$ gallon of juice to divide evenly between 2 friends. How much juice should each friend receive?

   A. $\frac{1}{3}$ gallon

   B. $\frac{1}{6}$ gallon

   C. $\frac{1}{8}$ gallon

   D. $\frac{1}{12}$ gallon