Spring BREAK

Math Prep
Grade 4

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Prep it up! [SM]

CRS
College-Readiness Standards

Student's Name: _____ Date: _____

Teacher's Name: _____ School Name: _____

NAME_____ DATE_____
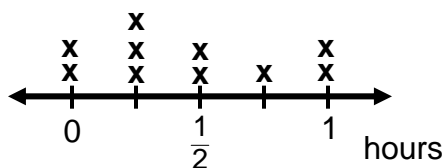
1. Which is the largest value of the 5 numbers below?

   Ⓐ 13.05　　　Ⓑ 13.5　　　Ⓒ 13.06　　　Ⓓ 13.45　　　Ⓔ 13.07

2. Which number below has the least value?
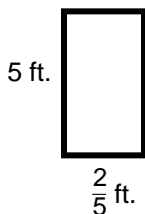
   Ⓐ $7\frac{1}{4}$　　　Ⓑ $7\frac{1}{5}$　　　Ⓒ $7\frac{1}{2}$　　　Ⓓ $7\frac{1}{10}$　　　Ⓔ $7\frac{1}{20}$

3. The line plot below shows the amount of time Thadeus practiced playing his guitar over 10 days. What is true about the time Thadeus played? Mark all that apply.
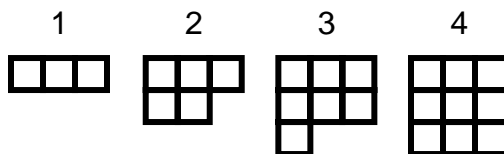

   Ⓐ He played for 1 hour on 2 days.
   Ⓑ He never practiced for 45 minutes.
   Ⓒ He usually practiced for $\frac{1}{2}$ hour each day.
   Ⓓ He didn't practice on 2 days.
   Ⓔ He practiced for 15 minutes on 3 days.

4. What is the area of the figure below, in square feet?

   5 ft.

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

   Ⓐ 6　　　Ⓑ 5　　　Ⓒ 4　　　Ⓓ 3　　　Ⓔ 2

5. Let f represent the number of the figure.

   1　　2　　3　　4

   If the pattern continues, which expression can be used to find the number of squares in the 6th figure? Mark all that apply.

   Ⓐ $3n$　　　Ⓑ $2f+1$　　　Ⓒ $3f-1$　　　Ⓓ $3f+1$　　　Ⓔ $3f$

NAME_____   DATE_____

1. Which is the largest value of the 5 numbers below?

   Ⓐ 17.6   Ⓑ 17.07   Ⓒ 17.08   Ⓓ 17.4   Ⓔ 17.04

2. Which number below has the greatest value?

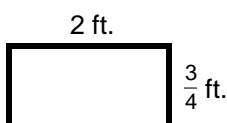   Ⓐ $10\frac{1}{9}$ Ⓑ $10\frac{3}{7}$ Ⓒ $10\frac{2}{5}$ Ⓓ $10\frac{1}{2}$ Ⓔ $10\frac{1}{7}$

3. The area of Carlton's garden is 96 ft². The width of the garden is 8 ft.

   What is the length of fencing Carlton would need to fence around the garden?

   Ⓐ 40 square feet

   Ⓑ 40 feet

   Ⓒ 54 feet

   Ⓓ 54 square feet

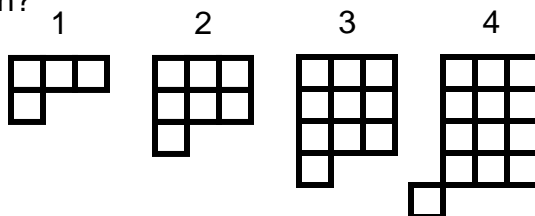   Ⓔ 104 feet

4. What is the area of the figure below? Use the appropriate unit of measure.
   Show your work.

   2 ft.

   $\frac{3}{4}$ ft.

   Answer: _____ _____

5. Look at the figures below. If the pattern continues, which would be true of the 5ᵗʰ figure in the pattern?

   1   2   3   4

   Ⓐ There would be an odd number of squares.

   Ⓑ The number of units would be divisible by 3.

   Ⓒ The number of units would be a prime number.

   Ⓓ There would be 16 units.

   Ⓔ There would be 3 more squares than the 4ᵗʰ figure in the pattern.

NAME_____   DATE_____

1. Which is the least value of the 5 numbers below?

   Ⓐ 11.03   Ⓑ 11.04   Ⓒ 11.1   Ⓓ 11.003   Ⓔ 11.02

---

2. Which number below has the least value?

   Ⓐ $6\frac{2}{9}$ Ⓑ $6\frac{2}{7}$ Ⓒ $6\frac{2}{11}$ Ⓓ $6\frac{2}{5}$ Ⓔ $6\frac{2}{3}$

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3. Suzette made a bowl of punch for her party. She used $2\frac{1}{4}$ cups of orange juice and $3\frac{1}{2}$ cups of pineapple juice. She filled the container up to a total of 8 cups with mango nectar. How much mango nectar did she add? Show your work.

   Answer: ⬚ cup(s)

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4. There are eight 4th grade classes going on a field trip. There are 20 students in each class and 22 adults who plan to go.

   Each bus will carry 48 people. How many buses are needed?

   Ⓐ 1   Ⓑ 2   Ⓒ 3   Ⓓ 4   Ⓔ 5

---

5. Which set shows factors of both 18 and 24?

   Ⓐ (1, 2, 3, 6, 8)
   Ⓑ (1, 2, 3, 6, 9)
   Ⓒ (1, 4, 6, 8)
   Ⓓ (1, 2, 3, 6, 18)
   Ⓔ (1, 2, 3, 6)

NAME_____   DATE_____

1. Mitchell works at a community pool during the summer. He folds clean towels for guests to use. Yesterday, he folded 24 white towels and 3 times as many blue towels.

   How many towels did he fold altogether?

   Ⓐ 106   Ⓑ 96   Ⓒ 84   Ⓓ 76   Ⓔ 72

2. By 5:30 pm, 12 out of 32 children had gone home from the party.

   Which fraction below is equivalent to $\dfrac{12}{32}$? Mark all that apply.

   Ⓐ $\dfrac{1}{4}$ Ⓑ $\dfrac{5}{8}$ Ⓒ $\dfrac{6}{16}$ Ⓓ $\dfrac{3}{8}$ Ⓔ $\dfrac{5}{16}$
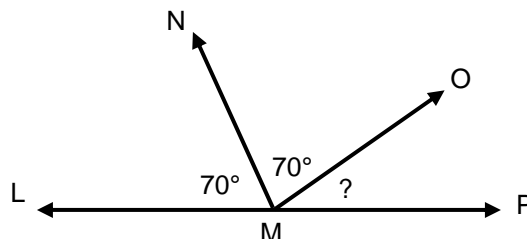
3. Which of the following equations are true? Mark all that apply.

   Ⓐ $\dfrac{4}{10} = \dfrac{40}{100}$ Ⓑ $\dfrac{14}{100} = 0.14$ Ⓒ $\dfrac{4}{100} = 0.4$ Ⓓ $\dfrac{4}{10} = 0.04$ Ⓔ $\dfrac{4}{10} = 0.14$

4. Which of the following numbers are composite?

   Ⓐ 2   Ⓑ 17   Ⓒ 31   Ⓓ 51   Ⓔ 64

5. Find the measure of angle OMP.

   Ⓐ 100°   Ⓑ 90°   Ⓒ 50°   Ⓓ 45°   Ⓔ 40°

NAME_____ DATE_____

1. Mr. Ford will select $\frac{2}{5}$ of the 120 people who tried out for a theatrical production.
   He will choose another 5 people to assist with the show.
   How many people will he choose altogether? Show your work.

   Answer: [ ] person(s)

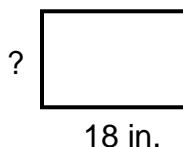2. By 2:45 pm, 10 out of 15 children had gone home from the party.

   Which fraction below is equivalent to $\frac{10}{15}$? Mark all that apply.

   Ⓐ $\frac{4}{6}$ Ⓑ $\frac{1}{5}$ Ⓒ $\frac{5}{2}$ Ⓓ $\frac{2}{5}$ Ⓔ $\frac{2}{3}$

3. Which of the following expressions has a value of $\frac{99}{100}$?

   Ⓐ $\frac{9}{10}+\frac{9}{10}$ Ⓑ $\frac{9}{10}+\frac{9}{100}$ Ⓒ $\frac{9}{100}+\frac{9}{100}$ Ⓓ $\frac{1}{10}+\frac{35}{100}+\frac{9}{100}+\frac{9}{10}$ Ⓔ $\frac{2}{10}+\frac{38}{100}+\frac{3}{10}+\frac{11}{100}$

4. The rectangle below has an area of 270 square inches.
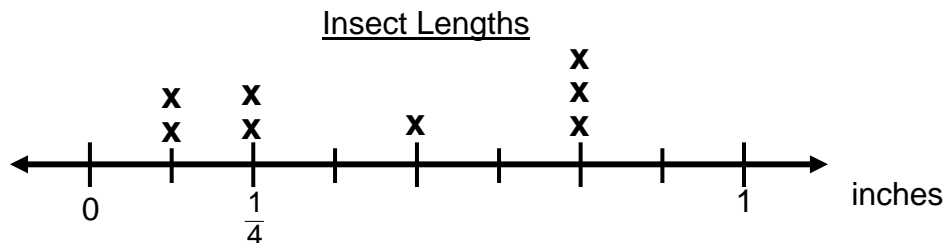
   ? [rectangle]
   18 in.

   What is the perimeter of the rectangle? Use the appropriate unit of measure.
   Show your work.

   Answer: [ ] inch(es)

5. The line plot below shows the length of several insects.
   How much longer is the longest insect than the shortest? Show your work.

   <u>Insect Lengths</u>

   ```
              X
      X   X   X
      X   X       X   X
   ───┼───┼───┼───┼───┼───┼───┼───┼───►
      0   1                   1      inches
          ─
          4
   ```

   Answer: [ ] inch(es)

NAME_____   DATE_____

1. Which numbers are missing in the subtraction problem below, in order of A, B and C?

$$
\begin{array}{r}
6\,0\,1\,\textbf{C} \\
-\ 1\,\textbf{A}\,8\,5 \\
\hline
4\,6\,\textbf{B}\,9 \\
\end{array}
$$

Ⓐ 3, 2, 6   Ⓑ 1, 2, 4   Ⓒ 3, 2, 4   Ⓓ 6, 2, 3   Ⓔ 3, 1, 4

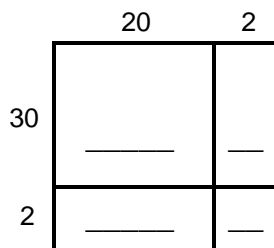2. By 7:50 pm, 12 out of 15 children had gone home from the party.

Which fraction below is equivalent to $\frac{12}{15}$?

Ⓐ $\frac{4}{5}$ Ⓑ $\frac{2}{5}$ Ⓒ $\frac{3}{5}$ Ⓓ $\frac{8}{10}$ Ⓔ $\frac{4}{3}$

3. Which of the following expressions are less than 1?

Ⓐ $4 \times \frac{3}{8}$ Ⓑ $2 \times \frac{2}{5}$ Ⓒ $3 \times \frac{1}{2}$ Ⓓ $2 \times \frac{1}{8}$ Ⓔ $\frac{2}{3} \times \frac{4}{5}$

4. Which expression would be used to find the sum of the products in the area model below?

Ⓐ 600 + 600 + 40 + 4   Ⓒ 600 + 60 + 400 + 40

Ⓑ 600 + 600 + 400   Ⓓ 600 + 60 + 40 + 4   Ⓔ 600 + 60 + 400 + 4

5. Which of the following could have 2 obtuse and 2 acute angles?

Ⓐ square   Ⓑ rhombus   Ⓒ trapezoid   Ⓓ parallelogram   Ⓔ rectangle

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