GRADE 5 Horizons Math Readiness Evaluation

1. Find the quotient.

\[ \begin{align*}
4 & \overline{24.08} \\
2 & \overline{2.38} \\
3 & \overline{23.67} \\
11 & \overline{26.07} \\
15 & \overline{77.70}
\end{align*} \]

2. Estimate by rounding two-digit numbers to the 10’s and three-digit numbers to the 100’s.

\[ \begin{align*}
8 & \overline{678} \\
14 & \overline{896} \\
87 & \overline{913} \\
28 & \overline{609} \\
18 & \overline{792}
\end{align*} \]

3. Draw a picture to solve the problem.

Four girls were in line for the movies. Dottie was behind Elaine. Karen was last. Tami was ahead of Elaine. Who was first in line?

4. Match. Place the appropriate letter next to the definition.

___ 1. 1665  
___ 2. BC  
___ 3. AD  
___ 4. decade  
___ 5. century  
___ 6. millennium  
___ 7. 60 minutes  
___ 8. 24 hours  
___ 9. 60 seconds  
___10. AM  
___11. pentagon  
___12. hexagon  
___13. octagon  
___14. triangle  
___15. quadrilateral

a. 12:00 midnight to 12:00 noon.  
b. Anno Domini–in the year of our Lord  
c. 1 hour  
d. 1 minute  
e. eight-sided figure  
f. 3-sided figure  
g. 1,000 years  
h. 10 years  
i. Before Christ  
j. 17th century  
k. five-sided figure  
l. 1 day  
m. 100 years  
n. four-sided figure  
o. six-sided figure
1. Name two angles that are acute. ________________________________

2. Name two angles that are right angles. __________________________

3. Name two lines that are parallel. ________________________________

4. Name two lines that are perpendicular. __________________________

5. Name the circle. _____

6. The diameter is 4 cm. What is the length of XD? ______

7. What is the length of CX? _____

8. Name the diameter. _____

9. Circle M is twice as big as the circle pictured above. What is the diameter of Circle M? ____
7. Draw a similar and congruent figure. Draw the lines of symmetry.

Figure A

10 inches

20 inches

Figure B

8. Find the perimeter and area of figure A. Find the volume of figure B.

9. Give the missing numerator or denominator.

Find the equal ratios by multiplying.

\[
\frac{3}{9} = \frac{9}{n} \quad \frac{2}{3} = \frac{28}{n} \quad \frac{6}{8} = \frac{n}{64} \quad \frac{1}{9} = \frac{9}{n}
\]

10. Find the sum or difference. Make sure the answer is in lowest terms.

\[
\frac{2}{3} + \frac{1}{3} = \phantom{00} \quad \frac{8}{10} - \frac{4}{10} = \phantom{00} \quad \frac{9}{12} - \frac{3}{12} = \phantom{00}
\]

\[
\frac{5}{7} + \frac{1}{7} = \phantom{00} \quad \frac{7}{14} + \frac{6}{14} = \phantom{00} \quad \frac{7}{9} + \frac{6}{9} = \phantom{00}
\]
11. Find the sum. Make sure the answer is in lowest terms.
\[
\begin{align*}
\frac{1}{4} + \frac{2}{8} &= \frac{3}{8} & \frac{5}{15} + \frac{1}{3} &= \frac{2}{3} & \frac{6}{10} + \frac{1}{5} &= \frac{2}{5} \\
\frac{2}{12} + \frac{2}{4} &= \frac{1}{3} & \frac{2}{3} + \frac{1}{12} &= \frac{3}{4} & \frac{2}{5} + \frac{1}{3} &= \frac{11}{15}
\end{align*}
\]

12. Find the sum or difference. Reduce to lowest terms.
\[
\begin{align*}
5 \frac{2}{6} + 12 \frac{3}{7} &= 17 \frac{3}{7} & 9 \frac{5}{6} - 7 \frac{1}{12} &= 2 \frac{11}{12} & 16 \frac{5}{9} - \frac{5}{9} &= 16
\\
+ 3 \frac{1}{6} + 16 \frac{2}{7} &= 20 \frac{5}{42} & - 9 \frac{2}{6} - 28 \frac{3}{12} &= -37 \frac{5}{6}
\end{align*}
\]

13. <, >, or =.
\[
\begin{align*}
4.9 & \bigcirc \ 4.1 & 1.9 & \bigcirc \ 1.90 & 9.03 & \bigcirc \ 9.33 & 0.06 & \bigcirc \ 0.060
\end{align*}
\]

14. Find the sum or difference.
\[
\begin{align*}
48.902 + 4.342 &= 53.244 & 465.001 + 233.021 &= 698.022 & 30.956 - 29.824 &= 1.132 & 7.76 - 0.94 &= 6.82
\end{align*}
\]

15. Complete.

<table>
<thead>
<tr>
<th>Kilo</th>
<th>Hecto</th>
<th>Deka</th>
<th>Basic Unit (Meter, Liter or Gram)</th>
<th>deci</th>
<th>centi</th>
<th>milli</th>
</tr>
</thead>
</table>

\[
\begin{align*}
890 \text{ mm} &= \underline{89} \text{ cm} & 78.89 \text{ m} &= \underline{7889} \text{ cm} \\
587 \text{ mm} &= \underline{0.587} \text{ m} & 8.54 \text{ Km} &= \underline{854} \text{ dm} \\
656 \text{ m} &= \underline{656} \text{ mm} & 7.001 \text{ m} &= \underline{700.1} \text{ cm}
\end{align*}
\]