Name: $\qquad$
Selected Response: Put the letter of the best response in the space provided.

1. Which fraction converts to a repeating decimal?

D. $\frac{9}{10}$

cannot be
written with a denominator of $10,100,1000, \ldots$
2. Which set of decimals match the list of fractions?

D. $0.7,2.7,9.9$
3. What is 0.3 as a fraction?

4. Which fraction belongs between the two numbers to make the statement true?

$$
0.2<\square<\frac{7}{10}=0.7
$$

A. $\frac{3}{100}$
B. $\frac{1}{10}$
$0.3,0.4,0.5,0.6$

5. What is $\frac{4}{5} \times 2=\frac{8}{10} \times 2$
A. $\quad 0.04$
B. 0.08
C. $\quad 0.4$
D.
6. Which set of numbers is ordered from least to greatest?



7. Which number is greater than $3 \frac{3}{5} \times 2=3 \frac{6}{10}=3.60$ $x \quad 3 \frac{1}{5} \times 2=3 \frac{2}{10}=3.20$
в. $\frac{7}{2}=3 \frac{1}{2}=3.50$
C. $3 \frac{9}{10}=3.90$
D. $\quad 3.42$
8. Using front-end estimation, what is the best estimate of $2 . h+8 . h+6 n$
A. 16
B.

17
C. $\quad 18$
D. 19
9. Using front-end estimation, where should the decimal be placed in the product 2 级 $\times 12$ 多?


$$
24
$$



Evaluate: $1.8 \div 0.9$
A. $\quad 0.02$
B. 0.2
C. 2
D. 20

Constructed Response:
Show ALL necessary workings for FULL marks!!!

1. Consider the following pattern:

$$
\frac{1}{11}=0 . \overline{09}, \quad \frac{2}{11}=0 . \overline{18}, \frac{3}{11}=0 . \overline{27}, \frac{4}{11}=0 . \overline{36}
$$

A. Predict the decimals for $\frac{5}{11}$ and $\frac{9}{11} \times 9=\frac{81}{99}=0 . \overline{81}$

$$
\frac{5}{11}=0.45
$$

B. Predict the fraction which will have $0.636363 \ldots$ as a decimal.
[1 mark]

$$
\frac{63 \div 9}{99: 9}=\frac{7}{11}
$$

2. Arrange the following numbers in order from least to greatest.
[3 marks]
$0.36,0 . \overline{3}, 0.3,0 . \overline{36}, 0.03,0.33$
0.3600
0.3333.
0.3000
$0.3636 \ldots$

$-0.3300$
3. Write each of the numbers in an approximate location on the number line.

4. Complete the table.

$$
\begin{array}{r}
125 \\
\times \quad 3 \\
\hline 375
\end{array}
$$

| FRACTION | DECIMAL |
| :---: | :---: |
| $\frac{3 \times 125}{8 \times 125}=\frac{375}{1000}$ | 0.375 |
| $\frac{3 \div 3}{9 \div 3}=\frac{1}{3}$ | $0 . \overline{3}$ |

5. Use a model of your choice to evaluate each:
※
$1.8 \div 0.3$
[3 marks]
B. $\quad 2.1 \times 1.5 \mathbb{Z}$ digits after decimal


6. Evaluate. Use estimation to ensure your answer is reasonable.
line up decimals
A. $\quad 6.51+7.8+2.1$

$$
\begin{array}{r}
6.51 \\
7.80 \\
+2.10 \\
\hline 16.41
\end{array}
$$

est. $6+7+2=15$
C. $\quad 1.6 \times 7.2$

$$
\begin{array}{rr}
41.6 \\
\times 7.2 \\
\hline 32
\end{array} \quad \begin{array}{r}
11 \times 7=7 \\
+1120
\end{array} \quad \begin{array}{r}
\frac{\times 1.6}{432} \\
\hline 11.52 \\
\hline
\end{array} \quad \begin{array}{r}
11.50 \\
\hline
\end{array}
$$

B. $\quad 10.3-5.21 \mathbf{2}$

$$
\begin{array}{r}
3-5.212 \\
10.8 \\
\hline
\end{array}
$$

est: $10-5=5$

$$
\nless \quad 2.34 \div 0.6
$$

7. Solve each problem. Show all workings.
A. It takes Megan 2.4 km to walk home from school. It takes him 2.31 km to walk to Subtraction
B. Mitchell's cat has a mass of 1.8 kg . His dog has a mass 2.5 times as much as his cat.
What is the mass of the dog, in kg ?

$x$
Emily has 5.4 ft of rope. She wants to make survivor bracelets. Each bracelet requires 0.6 ft . of rope. How many bracelets can she make?
