


Name: _____

Topic Assessment
Decimals **7b**

1 $3 \times 3.4 = 10.2$ $8 \times 5.6 = 44.8$ $7 \times 6.3 = 44.1$
 $5 \times 1.7 = 8.5$ $4.7 \times 4 = 18.8$

2 Find the total length of
 • 6 ropes • 8 poles.



$6 \times 16.9 \text{ m} = 101.4 \text{ m}$ $8 \times 2.37 \text{ m} = 18.96 \text{ m}$

3 $40 \times 1.6 = 64$ $60 \times 3.7 = 222$ $2.4 \times 80 = 192$
 $0.89 \times 20 = 17.8$ $50 \times 0.07 = 3.5$ $90 \times 5.4 = 486$

4 $46 \div 10 = 4.6$ $38 \div 100 = 0.38$ $3 \div 10 = 0.3$
 $61 \div 100 = 0.61$ $5.4 \div 10 = 0.54$

5 $\frac{1}{2}$ of $0.36 = 0.18$ half of $7.4 = 3.7$ $\frac{1}{2}$ of $1.6 = 0.8$

6 $2.4 \div 3 = 0.8$ $7.2 \div 8 = 0.9$ $1.2 \div 6 = 0.2$
 $3.2 \div 4 = 0.8$ $6.3 \div 9 = 0.7$

7 $25.8 \div 6$

$$\begin{array}{r} 6 \overline{)25.8} \\ \underline{-24} \\ 1.8 \\ \underline{-1.8} \\ 0 \end{array}$$

6×4.0
 6×0.3
 $25.8 \div 6 = 4.3$

8 $9.84 \div 8$

$$\begin{array}{r} 8 \overline{)9.84} \\ \underline{-8} \\ 1.84 \\ \underline{-1.6} \\ 0.24 \\ \underline{-0.24} \\ 0 \end{array}$$

8×1.0
 8×0.2
 8×0.03
 $9.84 \div 8 = 1.23$

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Topic Assessment
Decimals **7c**

1 Write as a decimal. $\frac{931}{1000} \rightarrow 0.931$ $6\frac{4}{1000} \rightarrow 6.004$
 Write as a fraction. $3.749 \rightarrow 3\frac{749}{1000}$ $8.060 \rightarrow 8\frac{6}{100}$

2 Complete each sequence.
 $1.092, 1.094, 1.096, 1.098, 1.100, 1.102, 1.104$
 $4.618, 4.612, 4.606, 4.600, 4.594, 4.588, 4.582$

3 Write each number as a 3-place decimal fraction.
 two tenths, zero hundredths and six thousandths **0.206**
 nine and twenty-seven thousandths **9.0027**

4 What is the value of the digit in each circle?
 $7(3)19$ **3 tenths** $8.91(7)$ **7 thousandths**

5 Tick (✓) the larger number.
 5.421 or 5.412 9.009 or 9.090 $6\frac{80}{1000}$ or 6.8

6 Write each set of numbers in order, starting with the smallest.
 $3.354, 4.553, 3.345, 4.543, 3.353$ **3.345, 3.353, 3.354, 4.543, 4.553**
 $7.867, 8.678, 8.67, 7.8, 8.6$ **7.8, 7.867, 8.6, 8.67, 8.678**

7 Round to the first decimal place.
 $2.286 \rightarrow 2.3$ $0.705 \rightarrow 0.7$ $1.051 \rightarrow 1.1$

8 Find the **approximate** total of 36.726 and 45.432
 after rounding each to the nearest whole number. **82**

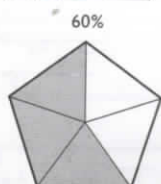
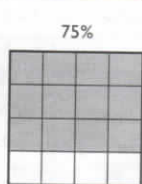
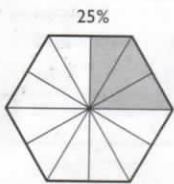
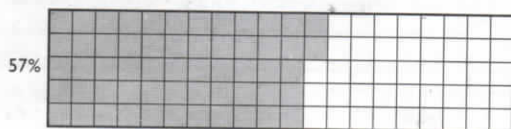
9 A drink is made by mixing 375 ml of orange juice and
 1.5 l of water.
 Find, in decimal form, the total volume of the mixture. **1.875 l**

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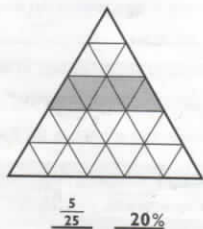
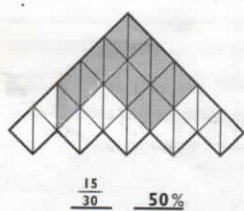
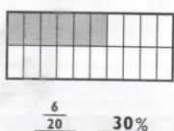
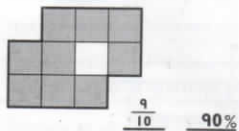
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Topic Assessment
Percentages **8a**

1 Colour.



2 For each shape, write the amount shaded as a fraction and as a percentage.



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Topic Assessment
Percentages **8b**

1 Write as a fraction **and** as a percentage.
 53 out of 100 $\frac{53}{100}$ **53%** 45 out of 90 $\frac{1}{2}$ **50%**
 200 out of 800 $\frac{1}{4}$ **25%** 100 out of 1000 $\frac{1}{10}$ **10%**

2 Find
 40% of 50 80% of 60 100% of 300 .
20 **48** **300**

3 Write as a percentage.
 6 out of 60 18 out of 30 28 out of 56 .
10% **60%** **50%**

4  60% of this 2 metre anchor chain is rusted.
 What length of Alf's chain is rusted? **1.2 m**

5 Find $\cdot 15\%$ of 80 **12** $\cdot 12\frac{1}{2}\%$ of 1200 . **150**

6 Write in two other ways.
 79% **0.79** $\frac{79}{100}$ $\frac{3}{20}$ **15%** **0.15**
 0.18 $\frac{18}{100}$ **18%** 3% **0.03** $\frac{3}{100}$

7 Write in order, starting with the **smallest** number.
 7 0.7 77% $\frac{7}{100}$ 77
 $\frac{7}{100}$, 0.7 , 77% , 7 , 77

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