**Extra Practice 1**

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| **Lesson 1: Equivalent Fractions**  **1.** Write two equivalent fractions for the shaded part of each picture.  **a) grid b)**  **2.** Draw a picture to show that  = .  **3.** Write three more equivalent fractions.  **a)** , , \_\_\_\_, \_\_\_\_, \_\_\_\_ **b)** , , \_\_\_\_, \_\_\_\_, \_\_\_\_  **c)** , , \_\_\_\_, \_\_\_\_, \_\_\_\_ **d)** , , \_\_\_\_, \_\_\_\_, \_\_\_\_  **4.** Write three more equivalent fractions.  **a)** , , \_\_\_\_, \_\_\_\_, \_\_\_\_ **b)** , , \_\_\_\_, \_\_\_\_, \_\_\_\_  **c)** , , \_\_\_\_, \_\_\_\_, \_\_\_\_ **d)** , , \_\_\_\_, \_\_\_\_, \_\_\_\_  **5.** Draw a picture to show each pair of equivalent fractions.  **a)** ,  **b)** ,  **c)** ,  **d)** ,  **6.** Which pairs of fractions are equivalent?  **a)**  and  **b)**  and  **c)**  and  **d)** and  **e)** and  **f)** and  **7.** Selma baked a dozen cupcakes. She ate 2 cupcakes.  Write 2 equivalent fractions to describe what part of the dozen  **a)** Selma ate. **b)** Selma left. |

**Extra Practice 2**

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| **Lesson 2: Comparing and Ordering Fractions**  **1.** Draw two 12-cm number lines. Show thirds on one line. Show twelfths on the other line. Use the number lines. Which fraction is greater,  or ?  **2.** What is greater,  or ? How do you know?  **3.** Use >, <, or = to make each statement true.  **a)** \_\_ **b)** \_\_ **c)** \_\_  **d)** \_\_ **e)** \_\_ **f)** \_\_  **4.** Order the fractions from least to greatest.  **a)** ,, **b)** ,, **c)** ,,  **5.** A wall has 30 tiles. One-fifth of the tiles are pink. One-half of the tiles are blue. The rest of the tiles are yellow.  **a)** What fraction of the tiles is yellow?  **b)** What colour is the greatest number of tiles?  **c)** What colour is the least number of tiles?  **6.** Use three 15-cm strips of paper. Show thirds on one strip. Show fifteenths on one strip. Show fifths on one strip. Use the strips to order these fractions from least to greatest: ,, |

**Extra Practice 4**

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| **Lesson 4: Relating Fractions to Decimals**  **1.** Write each fraction as a decimal.  **a)**  **b)**  **c)**  **d)**  **2.** Use Base Ten Blocks to represent each fraction.  Then write each fraction as a decimal.  **a)**  **b)**  **c)**  **d)**  **e)**  **f)**  **g)**  **h)**  **3.** Copy and complete. Use >, <, or =.  **a)**  \_\_  **b)**  \_\_ 0.17 **c)** 0.8 \_\_  **d)** 0.75 \_\_  **e)**  \_\_ 0.7 **f)**  \_\_  **4.** Write 2 equivalent fractions for each decimal.  **a)** 0.40 **b)** 0.25 **c)** 0.90 **d)** 0.8  **5.** Dallas had  of a dollar left at the end of the day at the amusement park.  How much money did Dallas have?  What coins might he have had?  **6.** Write each decimal as a fraction.  **a)** 0.3 **b)** 0.92 **c)** 0.26  **d)** 0.1 **e)** 0.53 **f)** 0.9 |

**Extra Practice 5**

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| **Lesson 5: Fraction and Decimal Benchmarks**  **1.** Draw 10-cm number lines. Label them with the benchmarks 0.0, 0.5, 1.0. Use the number lines to order each set of decimals from least to greatest.  **a)** 0.4, 0.3, 0.8 **b)** 0.2, 0.9, 0.5  **c)** 0.25, 0.50, 0.10 **d)** 0.70, 0.30, 0.20  **2.** Use a number line and decimal benchmarks to compare the numbers in each pair.  **a)**  and 0.3 **b)**  and 0.8 **c)**  and 0.2   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |   **3.** Write a decimal for each picture. Which decimal benchmark (0.0, 0.5, 1.0) is each decimal closest to? Order the decimals.  **a)** b)   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |   **4.** Order the decimals in each set from least to greatest.  **a)** 0.2, 0.50, 0.84 **b)** 0.49, 0.7, 0.3  **c)** 0.05, 0.6, 0.2 **d)** 0.11, 0.5, 0.17  **5.** Copy and complete. Use >, <, or =.  **a)** 0.40 \_\_ 0.2 **b)** 0.6 \_\_ 0.62 **c)** 0.2 \_\_ 0.200  **d)** 0.89 \_\_ 0.9 **e)** 0.9 \_\_ 0.90 **f)** 0.51 \_\_ 0.5 |

**Extra Practice 6**

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| **Lesson 6: Exploring Thousandths**  **1.** Write each fraction as a decimal.  **a)**  **b)**  **c)**  **d)**  **e)**  **f)**  **2.** Write each decimal as a fraction.  **a)** 0.436 **b)** 0.16 **c)** 0.004  **d)** 0.102 **e)** 0.18 **f)** 0.3   |  |  | | --- | --- | | **Counter Flicking** | | | **Contestant** | **Distance (m)** | | Roald | 0.938 | | Janet | 2.407 | | Rudy | 0.979 | | Bertram | 4.112 | | Sayid | 1.456 |   **3.** Use the data in the table.  Write the number that has:  **a)** a 1 in the tenths place  **b)** a 6 in the thousandths place  **c)** the same digit in the tenths and thousandths places  **d)** a 2 in the ones place  **e)** a 5 in the hundredths place  **4.** Write an equivalent decimal for each number.  **a)** 0.05 **b)** 2.35 **c)** 1.6 **d)** 8.43  **5.** Record each number in expanded form.  **a)** 823 thousandths **b)** 0.423  **d)** 1.009 **e)** 5 and 317 thousandths  **6.** Describe the value of each digit in each decimal.  **a)** 3.126 **b)** 0.104 **c)** 5.149 |

**Extra Practice 7**

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| **Lesson 7: Comparing and Ordering Decimals**  **1.** Copy and complete. Use =, >, or <.  **a)** 0.7 \_\_\_\_\_ 0.2 **b)** 2.05 \_\_\_\_\_ 2.01 **c)** 7.462 \_\_\_\_\_ 7.460  **d)** 1.7 \_\_\_\_\_ 1.70 **e)** 0.68 \_\_\_\_\_ 0.684 **f)** 3.512 \_\_\_\_\_ 3.9  **2.** Order the numbers from least to greatest.  **a)** 0.439, 1.004, 0.37 **b)** 2.83, 1.9, 0.297  **c)** 6.327, 6.019, 6.8 **d)** 3.105, 3.6, 5.12  **3.** Write a number that is between each pair of numbers.  **a)** 2.358 and 2.361 **b)** 8.014 and 8.1  **c)** 0.45 and 0.459 **d)** 1.238 and 1.24  **4.** Write a decimal with thousandths to make each statement true.  **a)** 0.59 > \_\_\_\_\_ **b)** 4.8 < \_\_\_\_\_ **c)** 3.001 > \_\_\_\_\_  **d)** 1.53 < \_\_\_\_\_ **e)** 9.23 > \_\_\_\_\_ **f)** 0.2 > \_\_\_\_\_  **5.** Which number in each set is closest to 5?  **a)** 5.023, 4.998, 5.104 **b)** 4.763, 5.933, 5.769   |  |  | | --- | --- | | **Masses of Our Pets** | | | **Pets** | **Mass (kg)** | | Moose | 33.566 | | Maggie | 4.082 | | Scooter | 9.525 | | Tiny | 33.512 | | Gordon | 0.453 |   **6.** Use the data in the table.  **a)** Which pet is heaviest?  **b)** Which pet is lightest?  **c)** Which pet is heavier than Gordon  but lighter than Scooter?  **d)** Sparky is heavier than Maggie but lighter than Scooter. What might his mass be? |

**Extra Practice 8**

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| **Lesson 8: Using Decimals to Relate Units of Measure**  **1.** Copy and complete.  **a)** 7 m = \_\_\_\_\_ cm **b)** 24 mm = \_\_\_\_\_ cm  **c)** 16 cm = \_\_\_\_\_ m **d)** 5 m = \_\_\_\_\_ mm  **e)** 23 m = \_\_\_\_\_ cm **f)** 84 cm = \_\_\_\_\_ m  **2.** Record each measure in millimetres and metres.  **a)** 73 cm **b)** 16 cm **c)** 1 cm **d)** 231 cm  **e)** 1000 cm **f)** 342 cm **g)** 4 cm **h)** 38 cm  **3.** Record each measure in millimetres and centimetres.  **a)** 1 m **b)** 0.4 m **c)** 0.9 m **d)** 2 m  **e)** 0.1 m **f)** 0.6 m **g)** 0.3 m **h)** 0.5 m  **4.** Record each measure in centimetres and metres.  **a)** 500 mm **b)** 68 mm **c)** 894 mm **d)** 176 mm  **e)** 5 mm **f)** 777 mm **g)** 6 mm **h)** 82 mm  **5.** Draw a worm of each length.  **a)** 75 mm **b)** 4 cm **c)** 18 cm **d)** 0.132 m  **6.** Jake’s frog jumped 3.7 cm. Abigail’s frog jumped 3.75 cm. Whose frog jumped the greater distance? By how much?  **7.** Copy and complete. Use =, >, or <.  **a)** 2.25 m \_\_\_\_\_ 80 cm **b)** 456 cm \_\_\_\_\_ 1.46 m  **c)** 27 mm \_\_\_\_\_ 2.7 cm **d)** 2000 mm \_\_\_\_\_ 3.1 m |

**Extra Practice 9**

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| **Lesson 9: Relating Fractions and Decimals to Division**  **1.** Write each fraction as a division statement.  **a)**  **b)**  **c)**  **d)**  **e)**  **f)**  **g)**  **h)**  **2.** Write each division statement as a fraction.  **a)** 3 ÷ 6 **b)** 5 ÷ 8 **c)** 4 ÷ 9 **d)** 6 ÷ 10  **e)** 4 ÷ 11 **f)** 8 ÷ 14 **g)** 3 ÷ 8 **h)** 7 ÷ 9  **3.** Divide. Show each remainder as a fraction.  **a)** 8 ÷ 3 **b)** 24 ÷ 9 **c)** 200 ÷ 7 **d)** 16 ÷ 5  **e)** 17 ÷ 6 **f)** 150 ÷ 8 **g)** 12 ÷ 5 **h)** 19 ÷ 3  **4.** Divide. Show each remainder as a decimal.  **a)** 25 ÷ 2 **b)** 17 ÷ 5 **c)** 199 ÷ 4 **d)** 93 ÷ 5  **e)** 24 ÷ 5 **f)** 53 ÷ 2 **g)** 55 ÷ 4 **h)** 16 ÷ 5  **5.** Write each answer as a decimal.  **a)** Two friends share a prize of $25 equally.  How much does each person get?  **b)** Morrison has 9 m of ribbon to decorate 5 gifts.  How much ribbon can he use for each gift?  **c)** Victor has 10 kg of birdseed to divide among 4 feeders. How much birdseed can Victor put in each feeder?  **6.** Olga makes 6 pie crusts from one bag of flour.  How many bags of flour will she need to make 20 pie crusts? |

**Extra Practice 10**

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| **Lesson 10: Estimating Sums and Differences**  **1.** Estimate each sum.  **a)** 8.1 + 7.2 **b)** 6.51 + 4.03 **c)** 7.358 + 2.71  **d)** 4.758 + 3.164 **e)** 0.943 + 0.995 **f)** 3.568 + 2.541  **g)** 5.09 + 4.94 **h)** 6.281 + 7.142 **i)** 0.415 + 0.327  **2.** Estimate each difference.  **a)** 26.18 – 20.92 **b)** 5.384 – 2.111 **c)** 8.43 – 2.251  **d)** 2.205 – 0.973 **e)** 6.275 – 1.184 **f)** 7.042 – 3.962  **g)** 0.736 – 0.002 **h)** 9.428 – 4.969 **i)** 3.849 – 1.932  **3.** Wolfgang is 1.476 m tall. His brother is 1.042 m tall.  Estimate the difference in their heights.  **4.** The CN Tower is 553.339 m tall. The Calgary Tower is 190.804 m tall. Estimate the difference in their heights.  **5.** The average depth of the Caribbean Sea is 2.575 km.  The average depth of Hudson Bay is 0.093 km.  Estimate the difference in their depths.  **6.** Calli drank 1.756 L of water during Track and Field Day. Arthur drank 0.987 L. About how much more water did Calli drink than Arthur? |

**Extra Practice 11**

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| **Lesson 11: Adding Decimals**  **1.** Add.  **a)** 4.3 + 1.3 **b)** 9.2 + 4.4 **c)** 4.25 + 3.76  **d)** 5.24 + 4.31 **e)** 0.52 + 3.76 **f)** 16.24 + 24.16  **2.** Add. Think about equivalent decimals when you need to.  **a)** 3.57 + 8.6 **b)** 7.4 + 3.51 **c)** 0.81 + 4.9  **d)** 27.34 + 8.59 **e)** 8.37 + 9.4 **f)** 62.1 + 35.76  **3.** The decimal point is missing in each sum.  Use estimation to place each decimal point.  **a)** 3.54 + 7.62 = 1116 **b)** 31.58 + 42.04 = 7362  **c)** 3.8 + 4.7 + 9.5 = 180 **d)** 73.4 + 2.65 + 0.8 = 7685  **4.** The decimal point in each sum is in the wrong place.  Write the sum with the decimal point in the right place.  **a)** 3.76 + 4.97 = 87.3 **b)** 25.91 + 42.76 = 6.867  **c)** 0.84 + 2.76 = 36.0 **d)** 4.81 + 7.36 = 121.7  **5.** Add.   |  |  |  |  | | --- | --- | --- | --- | | **a)** $24.67  + 21.42 | **b)**  7.63  + 8.45 | **c)** 94.12  + 8.03 | **d)** $1.54  + 8.76 |     **6.** Write a story problem that can be solved by adding two decimals with hundredths.  Solve your problem. |

**Extra Practice 12**

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| **Lesson 12: Subtracting Decimals**  **1.** Subtract.  **a)** 9.7 – 4.3 **b)** 8.6 – 2.9 **c)** 3.25 – 1.42  **d)** $15.42 – $9.83 **e)** 75.42 – 25.31 **f)** 18.92 – 4.25  **2.** Subtract. Think about equivalent decimals when needed.  **a)** 5.76 – 2.3 **b)** $2.59 – $1.57 **c)** 8.7 – 3.24  **d)** 84.6 – 31.7 **e)** 13.92 – 4.7 **f)** 16.85 – 5.9  **3.** The decimal point is missing in each difference.  Use estimation to place the decimal point.  **a)** 14.53 – 12.68 = 185 **b)** 3.45 – 0.61 = 284  **c)** 11.9 – 4.6 = 73 **d)** 25.73 – 14.86 = 1087  **4.** The decimal point in each difference is in the wrong place.  Write the difference with the decimal point in the right place.  **a)** 9.76 – 2.38 = 73.8 **b)** 37.92 – 14.26 = 236.6  **c)** 4.18 – 0.37 = 38.1 **d)** 85.76 – 41.35 = 4.441  **5.** Subtract.   |  |  |  |  | | --- | --- | --- | --- | | **a)** 8.4  – 2.7 | **b)** 6.58  – 0.23 | **c)** 92.41  – 3.78 | **d)** 50.47  – 13.58 |   **6.** Write a story problem that can be solved by subtracting two decimals with hundredths.  Solve your problem. |

**Extra Practice 13**

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| **Lesson 13: Adding and Subtracting Decimals**  **1.** Add.  **a)** 1.685 + 4.937 **b)** 5.148 + 3.227  **c)** 0.367 + 4.996 **d)** 61.239 + 8.468  **2.** Subtract.  **a)** 13.352 – 7.166 **b)** 5.891 – 1.309  **c)** 11.026 – 6.382 **d)** 9.405 – 3.881  **3.** Add or subtract.  **a)** 6.941 – 2.34 **b)** 3.85 + 7.206  **c)** 1.456 + 0.937 **d)** 8.142 + 0.51  **e)** 2.856 – 1.23 **f)** 5.34 – 1.9  **4.** Use estimation to place the decimal point in each sum or difference.  **a)** 3.657 + 5.544 = 9201 **b)** 8.156 + 4.189 = 12345  **c)** 7.854 – 2.499 = 5355 **d)** 8.004 – 5.4 = 2604  **e)** 24.316 – 20.452 = 3864 **f)** 16.134 + 8.009 = 24143  **5.** Maude is mixing 1.36 L of pineapple juice, 355 mL of orange juice, and 2 L of ginger ale to make a fruit punch. Will the liquids fit in a 4-L bowl?  Explain.  **6.** Use each of the digits 0 to 9 once.  Make 2 decimals with thousandths whose sum is close to 50. |