

Fraction and Decimal Computation Chapter Questions

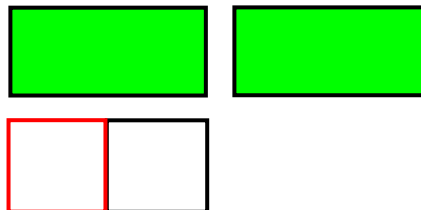
1. Explain why you multiply by the reciprocal when dividing fractions.
2. Explain how to complete long division.
3. What are the steps for adding decimals?
4. What are the steps for subtracting decimals?
5. What happens when you divide decimals?

Chapter Problems

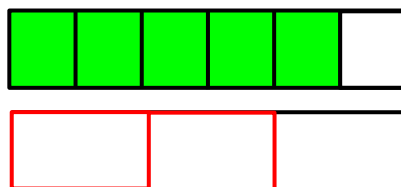
Dividing Fractions

Classwork

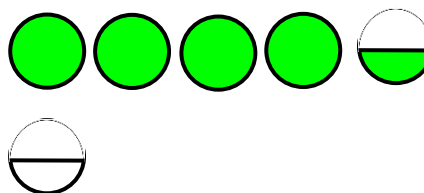
1) Use the model to demonstrate: $2 \div \frac{1}{2}$



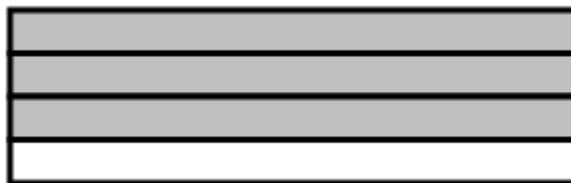
2) Use the model to demonstrate: $\frac{5}{6} \div \frac{2}{3}$



3) Use the model to demonstrate: $4\frac{1}{2} \div \frac{1}{2}$



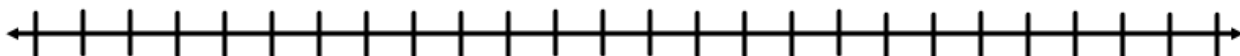
4) Use the model to demonstrate: $\frac{3}{4} \div 5$



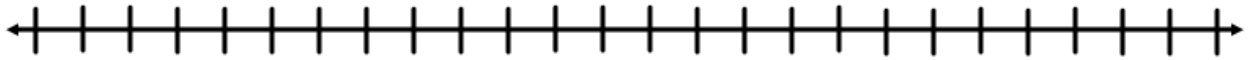
5) Use the model to demonstrate: $\frac{6}{9} \div 3$



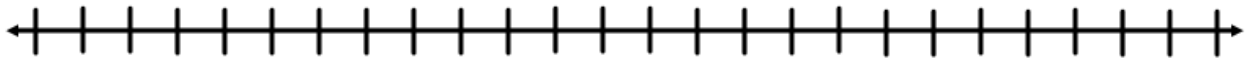
6) Use the number line to model: $1\frac{1}{4} \div 1\frac{2}{3}$



7) Use the number line to model: $2\frac{1}{5} \div 1\frac{3}{10}$



8) Use the number line to model: $4\frac{1}{3} \div \frac{2}{3}$



9) $\frac{1}{2} \div \frac{1}{3}$

18) $2\frac{1}{7} \div \frac{5}{16}$

10) $\frac{2}{5} \div \frac{5}{6}$

19) $3\frac{2}{3} \div \frac{22}{36}$

11) $\frac{12}{18} \div \frac{2}{6}$

20) $\frac{3}{5} \div 8$

12) $\frac{12}{15} \div \frac{6}{12}$

21) $5\frac{1}{4} \div \frac{1}{8}$

13) $\frac{3}{8} \div \frac{3}{4}$

22) $3\frac{5}{7} \div 2$

14) $\frac{10}{21} \div \frac{6}{15}$

23) $6\frac{4}{11} \div 4\frac{4}{9}$

15) $\frac{20}{33} \div \frac{5}{9}$

24) $3\frac{1}{3} \div 4\frac{1}{5}$

16) $\frac{18}{40} \div \frac{12}{15}$

25) $10 \div 4\frac{2}{3}$

17) $6 \div \frac{4}{9}$

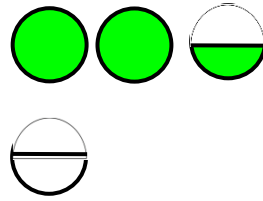
26) $7\frac{2}{7} \div 5\frac{2}{3}$

Homework

27) Use the model to demonstrate: $3 \div \frac{5}{6}$

28) Use the model to demonstrate: $\frac{2}{3} \div \frac{5}{6}$

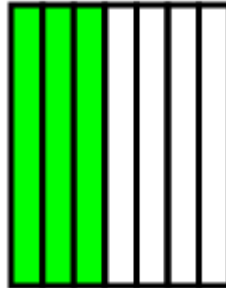
29) Use the model to demonstrate: $2\frac{1}{2} \div \frac{1}{2}$



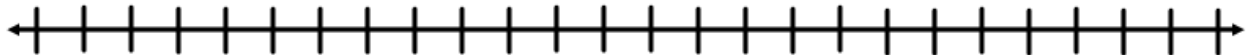
30) Use the model to demonstrate: $\frac{4}{5} \div 8$



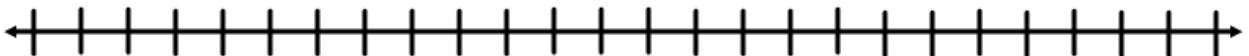
31) Use the model to demonstrate: $\frac{3}{7} \div 6$



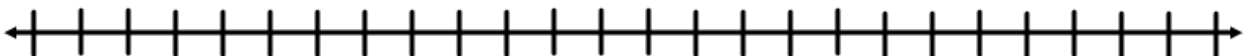
32) Use the number line to model: $2\frac{1}{2} \div 1\frac{2}{3}$



33) Use the number line to model: $4\frac{2}{3} \div 1\frac{1}{3}$



34) Use the number line to model: $1\frac{3}{5} \div \frac{8}{10}$



35) $\frac{3}{8} \div \frac{7}{12}$

36) $\frac{4}{10} \div \frac{2}{7}$

37) $\frac{3}{12} \div \frac{5}{20}$

38) $\frac{2}{6} \div \frac{3}{7}$

39) $\frac{8}{15} \div \frac{6}{9}$

40) $\frac{22}{30} \div \frac{5}{21}$

41) $\frac{18}{25} \div \frac{14}{15}$

42) $\frac{27}{35} \div \frac{18}{21}$

43) $2 \div \frac{5}{8}$

44) $5 \div 1\frac{7}{18}$

45) $\frac{14}{30} \div 10$

46) $7 \div \frac{5}{12}$

47) $5\frac{1}{4} \div 2\frac{1}{3}$

48) $8\frac{3}{4} \div 7$

49) $2\frac{1}{8} \div 3\frac{3}{4}$

50) $2\frac{1}{10} \div \frac{3}{8}$

51) $3\frac{1}{9} \div \frac{5}{6}$

52) $7\frac{3}{5} \div 6\frac{2}{3}$

Fraction Operations Application Classwork

- 53) How much candy will each person get if 5 people share $6\frac{1}{2}$ pounds of Swedish Fish?
- 54) How many $\frac{2}{3}$ cup servings are in $1\frac{1}{2}$ cups of cheese?
- 55) How long is a rectangle if its width is $2\frac{3}{10}$ feet and its area is $8\frac{37}{50}$ square feet?
- 56) A recipe calls for $\frac{3}{4}$ cup of brown sugar. If you want to make $\frac{1}{4}$ of the recipe, how many cups of brown sugar do you need?
- 57) For a party, you buy $8\frac{3}{4}$ lbs. of salt water taffy. If 150 people are attending, how much salt water taffy does each person get?
- 58) A cook has $\frac{3}{5}$ ounce of pepper. A recipe for a steak marinade requires $\frac{1}{15}$ ounce of pepper. How many batches of marinade can the cook produce from $\frac{3}{5}$ ounce of pepper?
- 59) Max wants to run $5\frac{1}{2}$ miles to train for track season. If the total length around the track is $\frac{3}{4}$ mile, how many laps does Max need to run around the track?

- 60) You are making hamburgers for a barbeque with your family and bought $2\frac{1}{2}$ pounds of ground beef. If you want to make $\frac{1}{3}$ pound hamburgers, how many can you make from $2\frac{1}{2}$ pounds of ground beef?
- 61) Annie is baking cupcakes. The recipe calls for $\frac{1}{3}$ cup of butter, $\frac{2}{7}$ cup of sugar, and $\frac{2}{3}$ cup of milk. How many cups of ingredients is that altogether?
- 62) Ben has 55 baseball cards. He will give $\frac{1}{5}$ of his cards to his younger brother, Phil. How many cards will Phil get?
- 63) Kelly has 45 cookies. She plans on bringing $\frac{2}{3}$ of the cookies to school to share with her class. How many cookies is she not bringing to school?
- 64) Jim needs $4\frac{1}{2}$ cups of bleach for every ten gallons of water for cleaning. How many cups of bleach should he use if he is making 5 gallons?
- 65) If $\frac{x}{4} = 5$ is true, is $\frac{x}{5} = 4$ also true? Why or why not?
- 66) Evaluate the expression $\frac{4}{d} + \frac{2}{3}$ if $d = 5$.
- 67) Sue has a picture that is $7\frac{1}{2}$ inches across and 8 inches long. She wants to put a border that is $1\frac{1}{4}$ inches around the picture. What is the new perimeter of the picture, including the border?

Homework

- 68) How many nuts will each person get if 9 people share $28\frac{4}{5}$ pounds of nuts?
- 69) How many $1\frac{2}{3}$ cup servings are in $15\frac{1}{4}$ cups of salsa?
- 70) How long is a rectangle if its width is $3\frac{3}{8}$ feet and its area is 27 square feet?
- 71) A recipe calls for $4\frac{3}{4}$ cups of flour. If you want to make $3\frac{1}{2}$ of the recipe, how many cups of flour do you need?
- 72) For the first day of school, you buy $51\frac{3}{4}$ lbs. of cookies. If you share with the 23 people in homeroom, how many pounds of cookies do you give each person?
- 73) A cook has $\frac{4}{7}$ ounce of baking powder. A recipe for chocolate chip cookies requires $\frac{1}{28}$ ounce of baking powder. How many batches of cookies can the cook produce from $\frac{4}{7}$ ounce of baking powder?

- 74) Anthony wants to run $8\frac{1}{2}$ miles to train for track season. If the total length around the track is $\frac{3}{4}$ mile, how many laps does Anthony need to run around the track?
- 75) You are making a cake for a friend's birthday and bought $2\frac{3}{5}$ pounds of butter. If each layer of the cake requires $\frac{1}{3}$ pound of butter, how many layers can you make from $2\frac{3}{5}$ pounds of butter?
- 76) Pamela is baking muffins. She will put $\frac{3}{4}$ cup of dried cranberries, $\frac{2}{3}$ cup of sliced almonds, $\frac{1}{8}$ cup of raisins, and $1\frac{1}{4}$ cup of milk. How many cups of ingredients is that altogether?
- 77) Brenda has 120 stickers. She will use $\frac{1}{4}$ of them to decorate her folder. How many stickers will she put on her folder?
- 78) Melanie works with 33 people. $\frac{1}{3}$ of her coworkers are male. How many are female?
- 79) Krista uses $2\frac{2}{3}$ tablespoons of drink mix for every liter of fruit punch. How many tablespoons does she need if she is making 5 liters for her class party?
- 80) If $\frac{7}{t} = 21$ is true, is $t = 21 \cdot 7$ also true? Why or why not?
- 81) Evaluate the expression $\frac{5}{6} + \frac{v}{7}$ if $v = 3$.
- 82) Karla has a painting that is 20 inches across and $11\frac{1}{2}$ inches tall. She wants to put a $2\frac{2}{3}$ inch border around the painting. What is the area of the painting, including the border?

Long Division **Classwork**

Estimate the quotient. Round your answer to the nearest whole number. Then solve the problem.

- 83) $816 \div 68$
- 84) $4140 \div 45$
- 85) $1748 \div 92$
- 86) $1452 \div 33$
- 87) $3834 \div 71$
- 88) $4895 \div 25$
- 89) $10406 \div 44$

- 90) $893 \div 10$
- 91) $4290 \div 20$
- 92) $10624 \div 50$
- 93) Bryan bought 4 bags of peanuts from the grocery store. Each bag of has the same number of peanuts. If Bryan bought a total of 564 peanuts, how many peanuts come in each bag?
- 94) Clara slept for a total of 126 hours over the course of two weeks. If she sleeps for the same amount of time each night, how many hours does she sleep per night?

Homework

Estimate the quotient. Round your answer to the nearest whole number. Then solve the problem.

- 95) $2744 \div 49$
- 96) $714 \div 51$
- 97) $2890 \div 85$
- 98) $1736 \div 31$
- 99) $9702 \div 99$
- 100) $1838 \div 20$
- 101) $993 \div 10$
- 102) $1816 \div 20$
- 103) $10989 \div 50$
- 104) $1771 \div 20$
- 105) Delia had several packages of jellybeans. She opened them all and had 684 jellybeans. If each package has 76 jellybeans, how many packages of jellybeans did she open?
- 106) Max rides his bike the same distance every day. Over the course of three weeks, he biked 84 miles. How many miles did he bike each day?

Adding Decimals

Classwork

Estimate the sum. Then solve the problem.

- 107) $162.4221 + 198.3$
- 108) $128.272 + 171.35$
- 109) $100.67 + 157.9094$

- 110) $89.5231 + 83$
- 111) $136.742 + 182.3$
- 112) $30.765 + 32.42 + 12.1$
- 113) $142.2 + 106.066 + 98$
- 114) $118.36 + 60.8897 + 3.8$
- 115) $103.924 + 181.9 + 14.3 + 145.32$
- 116) $34.281 + 60.1702 + 12.89 + 45$
- 117) Sandra loves red licorice rope. She has one piece that is 175.3 cm long, another that is 71.23 cm, and a third that is 101.333 cm long. How much licorice does she have all together?
- 118) A recipe calls for 0.55 mL of vanilla extract, 1.05 mL of almond extract, and 0.75 mL of mint extract. How much extract does the recipe require?

Homework

Estimate the sum. Then solve the problem.

- 119) $184.77 + 20.98$
- 120) $52.8 + 159.519$
- 121) $120.846 + 138.4676$
- 122) $200.1 + 24.94$
- 123) $194.032 + 72.1$
- 124) $35.68 + 85.8894 + 16.89$
- 125) $116.492 + 82.514 + 49.32$
- 126) $87.648 + 186.1 + 95.6$
- 127) $64.4591 + 76.9125 + 15.889 + 83$
- 128) $100.44 + 15.64 + 98.723 + 109$
- 129) Charles and his friends are building a model train track. Charles has 12.5 m of railway track. His friend Michael has 8.6 m, and his friend Kristy has 4.8 m. When they put their track together what will the total length be?
- 130) For Mother's Day, Sophia buys her mom a bunch of flowers for \$12.95, and box of chocolates for \$3.95, and a card for \$1.78. How much did she spend?

Subtracting Decimals **Classwork**

Estimate the difference. Then solve the problem.

131) $15 - 0.12$

132) $4.71 - 3$

133) $13 - 6.62$

134) $232.157 - 55.288$

135) $226.126 - 78.6$

136) $686.41 - 9.256$

137) $98.111 - 78.093$

138) $915.469 - 42.7$

139) $796.324 - 39.85$

140) $306.935 - 89.967$

141) If your weekly salary is \$520, how much do you take home each week after deductions are made for taxes of \$82.14, \$9.77, \$31.35 and \$41.25?

142) Franklin spent \$37.46 at the grocery store. The cashier gave him \$2.54 in change from a \$50 bill. What did the cashier do wrong?

143) Tara wanted to buy a DVD player for \$49.95, a DVD case for \$19.95 and a Blu-Ray player for \$149.99. Does she have enough money to buy all three items if she has \$215 with her?

Homework

Estimate the difference. Then solve the problem.

144) $12 - 1.77$

145) $18.62 - 9$

146) $17 - 5.91$

147) $700.746 - 60.122$

148) $716.835 - 37.43$

149) $675.66 - 11.44$

150) $698.54 - 7.652$

151) $286.583 - 280.789$

152) $457.4 - 2.609$

153) $521.549 - 0.772$

154) If your monthly salary is \$1600, how much do you take home each week after deductions are made for taxes of \$324.58, \$43.15, \$126.75 and \$207.54?

155) Sam spent \$76.56 at the electronics store. The cashier gave him \$33.44 in change from a \$100 bill. What did the cashier do wrong?

156) Tom wanted to buy a stereo for \$159.95 and 2 DVDs for \$19.95 each. Does he have enough money to buy all three items if he has \$200 with him?

Distributive Property & Product of Decimals

Classwork

Calculate the product using partial products.

157) $8(72)$

158) $11(54)$

159) $20(93)$

160) $50(27)$

161) $300(46)$

162) $4(12.9)$

163) $15(8.8)$

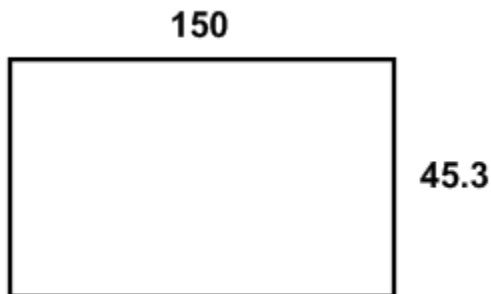
164) $60(32.3)$

165) $90(71.6)$

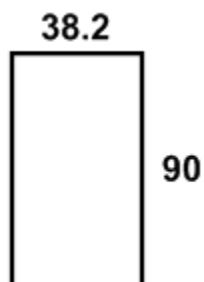
166) $800(26.4)$

Calculate the area of the rectangles using partial products.

167)



168)



Homework

Calculate the product using partial products.

169) $6(85)$

170) $14(27)$

171) $30(86)$

172) $70(42)$

173) $400(63)$

174) $3(9.4)$

175) $16(5.3)$

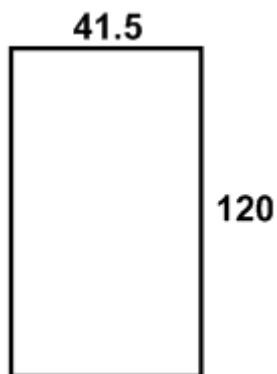
176) $50(82.1)$

177) $80(46.9)$

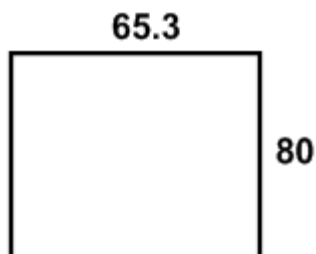
178) $600(35.4)$

Calculate the area of the rectangles using partial products.

179)



180)



Multiplying Decimals

Classwork

Estimate the product. Determine the place value of the last digit in the product. Then solve the problem.

181) 366×0.53

182) 4.09×1.88

183) 9.7×3.69

184) 4.6×2.36

185) 1.42×0.43

186) 3.407×4.9

187) 43.8×6.56

188) 5.09×2.57

189) 7.28×3.002

190) 70.15×8.0029

191) If peanuts cost \$6.59 a pound, how much would it cost to buy three and a half pounds of peanuts?

192) You need to buy 7 notebooks that cost \$0.74 each. How much will this cost?

Homework

Estimate the product. Determine the place value of the last digit in the product. Then solve the problem.

193) 7.05×2.4

194) 9.681×0.46

195) 12.51×1.13

196) 39.3×5.26

197) 8.36×4.4

198) 1.575×0.005

199) 285.6×7.29

200) 9.001×1.223

201) 657.8×5.04

202) 3961.2×8.012

203) If candy cost \$5.99 a pound, how much would it cost to buy four and a quarter pounds of candy?

204) You need to buy 5 books that cost \$12.99 each. How much will this cost?

Dividing Decimals **Classwork**

Estimate the quotient. Then complete the following computations.

205) $272.7 \div 2.25$

206) $382.3 \div 0.5$

207) $540.9 \div 3$

208) $534.27 \div 10$

209) $770.553 \div 567$

210) $91.65 \div 3.9$

211) $4.284 \div 1.05$

212) $1 \div 0.08$

213) $115.06 \div 2.2$

214) $159.642 \div 0.49$

215) How much gas can you buy with \$20 if it costs \$2.39 per gallon?

216) Jen studied for 16.1 hours over a period of 3.5 days. On average, how much did she study each day?

Homework

Estimate the quotient. Then complete the following computations.

217) $364.26 \div 0.52$

218) $780.485 \div 0.1$

219) $21.7 \div 70$

220) $5.36 \div 53.6$

221) $188.32 \div 0.4$

222) $20.1975 \div 2.5$

223) $28.42 \div 0.07$

224) $77.353 \div 1.03$

225) $79.95 \div 4.1$

226) $3.1278 \div 0.006$

227) Paint costs \$24.99 a gallon. How much paint can he buy if he has \$90, how many gallons can he buy? Round your answer to the nearest tenths.

228) How much gas can you buy with \$30 if it costs \$2.33 per gallon? Round your answer to the nearest hundredths.

Dividing Decimals (Repeating)

Classwork

229) $3.86 \div 0.18$

230) $38.24 \div 0.15$

231) $34.04 \div 4.4$

232) $0.6 \div 0.9$

233) $96.86 \div 0.44$

234) $0.15 \div 1.1$

235) $8 \div 0.22$

236) $1.7 \div 1.2$

237) $4.53 \div 5.5$

238) $0.55 \div 0.03$

Homework

239) $60.7 \div 1.8$

240) $0.7 \div 0.6$

241) $61.3 \div 0.37$

242) $6.94 \div 0.3$

243) $98.43 \div 0.37$

244) $0.305 \div 0.11$

245) $908 \div 3.3$

246) $5 \div 6.6$

247) $1.07 \div 5.5$

248) $0.814 \div 0.9$

Fraction and Decimal Computations Chapter Review
Multiple Choice Questions

- 1) How many $\frac{2}{5}$ ounce servings are in $3\frac{4}{7}$ ounces?
- a. $1\frac{3}{7}$ servings
 - b. $4\frac{3}{7}$ servings
 - c. $3\frac{8}{35}$ servings
 - d. $8\frac{13}{14}$ servings
- 2) $1\frac{1}{5} \div \frac{3}{4}$
- a. $\frac{9}{10}$
 - b. $1\frac{3}{20}$
 - c. $1\frac{4}{15}$
 - d. $1\frac{3}{5}$
- 3) Which of the following is equivalent to the problem $35 \times (28.14)$?
- a. $(30 + 5) + 28.14$
 - b. $35 \times (28 \times 0.14)$
 - c. $35 \times (28 + 0.14)$
 - d. $35 + (28 + 0.14)$
- 4) Which of the following will result in an even number?
- a. $5 + 6 + 7 + 8 + 9$
 - b. $5 \times 6 \times 7 \times 8 \times 9$
 - c. $10 + 11 + 12 + 13 + 14 + 15$
 - d. $3 \times 5 \times 7 \times 9 \times 11$
- 5) Which of the following numbers is divisible by both 3 and 9?
- a. 15
 - b. 89
 - c. 102
 - d. 234

6) $35.938 + 543.5$

- a. 413.73
- b. 41.373
- c. 578.438
- d. 579.438

11) $266.37 - 215.38$

- a. 50.99
- b. 51.01
- c. 51.19
- d. 50.19

7) $96.3 + 2.576 + 154.2 + 50$

- a. 513.1
- b. 303.076
- c. 558.1
- d. 303.13

12) 4.25×0.96

- a. 408
- b. 40.8
- c. 40800
- d. 4.08

8) $86.542 + 67$

- a. 153.542
- b. 1535.420
- c. 932.42
- d. 866.09

13) 535×9.84

- a. 5.2644
- b. 52.644
- c. 5264.4
- d. 526.44

9) $75 - 8.47$

- a. 7.72
- b. 66.53
- c. 77.2
- d. 665.3

14) 72.3×0.0058

- a. 0.41934
- b. 41.934
- c. 4.1934
- d. 419.34

10) $751.42 - 367.9$

- a. 7147
- b. 714.7
- c. 383.52
- d. 38.352

15) $2469.6 \div 84$

- a. 29.40
- b. 2940
- c. 2.940
- d. 294.0

16) $5056 \div 80$

- a. 63.2
- b. 0.632
- c. 6320
- d. 6.32

18) $79.98 \div 2.2$

- a. $363.\overline{54}$
- b. $3.63\overline{54}$
- c. $36.3\overline{54}$
- d. $363\overline{5.4}$

17) $3.0976 \div 0.88$

- a. 0.352
- b. 35.2
- c. 352
- d. 3.52

Short Constructed Response Questions

19) $\frac{6}{7} \div \frac{3}{8} = \underline{\hspace{2cm}}$

20) $3\frac{2}{9} \div 1\frac{2}{3} = \underline{\hspace{2cm}}$

21) $187.6 + 39.35 + 5.732 = \underline{\hspace{2cm}}$

22) $879.257 - 29.39 = \underline{\hspace{2cm}}$

23) $434.7 \times 0.009 = \underline{\hspace{2cm}}$

24) $61.215 \div 0.07 = \underline{\hspace{2cm}}$

25) $635.8 \div 0.99 = \underline{\hspace{2cm}}$

Extended Constructed Response Questions

26) Create a story problem for $\frac{4}{9} \div \frac{1}{3}$.

- a. Use a visual fraction model to show the quotient.
- b. Evaluate the quotient without models. Show your work.
- c. Explain the relationship of the quotient to the divisor and dividend using a number sentence to represent the situation.

- 27) Stephanie purchased a sweater for \$57.98, including tax. She gave the cashier one \$20 bill, three \$10 bills, one \$5 bill, six quarters, eleven dimes, and eight nickels.
- How much money did Stephanie give to the cashier?
 - How much change will Stephanie receive from the cashier?
 - Show all of your work to support your answers.
- 28) Kyle is mailing three packages to a friend. The packages weigh 3.4 pounds, 8.6 pounds, and 14 pounds. Postage will cost a flat rate of \$2.49 for packages weighing up to 5 pounds. Any additional weight will be charged at a rate of \$1.35/lb.
- Find the total weight of the three packages.
 - Find the total cost of mailing all three packages.
 - Show all of your work to support your answers.
- 29) Sean wants to find a summer job. He was offered a job at a local restaurant where he will make \$150 per week. He was also offered a job working for a landscaping company for \$7.50 per hour for 8 hours per day, three days per week.
- Determine the amount Sean will make per week at each job.
 - Describe which place Sean should choose to work and explain why.
 - Show all of your work to support your answers.
- 30) Melanie went away on vacation and wanted to send some postcards and letters to her family about her trip. Postcards cost \$0.45 to buy and send and letters cost \$1.35 to buy and send. Melanie spent \$6.30 on the letters and postcards that she sent.
- Determine the number of postcards Melanie sent.
 - Determine the number of letters Melanie sent.
 - Show all of your work to support your answers.

Answer Key

1) 4

2) $1\frac{1}{4}$

3) 9

4) $3\frac{3}{4}$

5) $\frac{2}{9}$

6) $\frac{3}{4}$

7) $1\frac{9}{13}$

8) $6\frac{1}{2}$

9) $1\frac{1}{2}$

10) $\frac{12}{25}$

11) 2

12) $1\frac{3}{5}$

13) $\frac{1}{2}$

14) $1\frac{4}{21}$

15) $1\frac{1}{11}$

16) $\frac{9}{16}$

17) $13\frac{1}{2}$

18) $6\frac{6}{7}$

19) 6

20) $\frac{3}{40}$

21) 42

22) $1\frac{6}{7}$

23) $1\frac{19}{44}$

24) $\frac{50}{63}$

25) $2\frac{1}{7}$

26) $1\frac{2}{7}$

27) $3\frac{3}{5}$

28) $\frac{4}{5}$

29) 5

30) $\frac{1}{10}$

31) $\frac{1}{14}$

32) $1\frac{1}{2}$

33) $3\frac{1}{2}$

34) 2

35) $\frac{9}{14}$

36) $1\frac{2}{5}$

37) 1

38) $\frac{7}{9}$

39) $\frac{4}{5}$

40) $3\frac{2}{25}$

41) $\frac{27}{35}$

42) $\frac{9}{10}$

43) $3\frac{1}{5}$

44) $3\frac{3}{5}$

45) $\frac{7}{150}$

46) $16\frac{4}{5}$

47) $2\frac{1}{4}$

48) $1\frac{1}{4}$

49) $\frac{17}{30}$

50) $5\frac{3}{5}$

51) $3\frac{11}{15}$

52) $1\frac{7}{50}$

53) $1\frac{3}{10}$ lbs

54) $2\frac{1}{4}$ servings

55) $3\frac{4}{5}$ feet

56) $\frac{3}{16}$ cups

57) $\frac{7}{120}$ lbs

58) 9 batches

59) $7\frac{1}{3}$ laps

60) $7\frac{1}{2}$ burgers

61) $1\frac{2}{7}$ cups

62) 11 cards

63) 15 cookies

64) $2\frac{1}{4}$ cups

65) Yes, because $x = 5 \cdot 4 = 20$

66) $1\frac{7}{15}$

67) 41 inches

68) $3\frac{1}{5}$ lbs

69) $10\frac{13}{20}$ servings

70) 8 feet

71) $16\frac{5}{8}$ cups

72) $2\frac{1}{4}$ lbs

73) 16 batches

74) $11\frac{1}{3}$ laps

75) $7\frac{4}{5}$ layers

76) $2\frac{19}{24}$ cups

77) 30 stickers

78) 22 workers

79) $13\frac{1}{3}$ tablespoons

80) It is false because $t = \frac{7}{21}$ or $\frac{1}{3}$

81) $1\frac{11}{42}$

82) $426\frac{4}{9}$

83) 11; 12

84) 80; 92

85) 22; 19

86) 33; 44

87) 57; 54

88) 167; 195.8

89) 250; 236.5

90) 90; 89.3

91) 200; 214.5

92) 200; 212.48

93) 150; 141 peanuts per bag

94) 10; 9 hours per night

95) 60; 56

96) 14; 14

97) 33; 34

98) 67; 56

99) 100; 98

100) 100; 91.9

101) 100; 99.3

102) 100; 90.8

103) 200; 219.78

104) 100; 88.55

105) 9; 9 packages

106) 4; 4 miles per day

107) 360; 360.7221

108) 299; 299.622

109) 259; 258.5794

110) 173; 172.5231

111) 319; 319.042

112) 75; 75.285

113) 346; 346.266

114) 183; 183.0497

115) 445; 445.444

116) 152; 152.3412

117) 347; 347.863 cm

118) 3 ml; 2.35 ml

119) 206; 205.75

120) 213; 212.319

121) 259; 259.3136

122) 225; 225.04

123)266; 266.132

124)139; 138.4594

125)248; 248.326

126)370; 369.348

127)240; 240.2606

128)324; 323.803

129)27m; 25.9 m

130)\$19; \$18.68

131)15; 14.88

132)2; 1.71

133)6; 6.38

134)177; 176.869

135)147; 147.526

136)677; 677.154

137)20; 20.018

138)872; 872.769

139)756; 756.474

140)217; 216.968

141)\$356; \$355.49

142)\$13; The correct change was
\$12.54. The cashier gave him \$10
less than he should have.

143)No (it will cost \$219.89)

144)10; 10.23

145)10; 9.62

146)11; 11.09

147)641; 640.624

148)680; 679.405

149)665; 664.22

150)691; 690.888

151)6; 5.794

152)454; 454.791

153)521; 520.777

154)\$897; \$897.98

155)\$23; The correct change was
\$23.44. The cashier gave him \$10
too much.

156)Yes (it will cost \$199.85)

157)576

158)594

159)1,860

160)1,350

161)13,800

162)51.6

163)132

164)1,938

165)6,444

166)21,120

167) 6,795
168) 3,438
169) 510
170) 378
171) 2,580
172) 2,940
173) 25,200
174) 28.2
175) 84.8
176) 4,105
177) 3,752
178) 21,240
179) 4,980
180) 5,224
181) Smaller than 366; hundredths;
193.98
182) 8; ten-thousandths; 7.6892
183) 40; thousandths; 35.793
184) 10; thousandths; 10.856
185) smaller than 1.42; ten-thousandths;
0.6106
186) 15; ten-thousandths; 16.6943
187) 308; thousandths; 287.328

188) 15; ten-thousandths; 13.0813
189) 21; 21.85456
190) 560; millionths; 561.403435
191) \$28; thousandths; \$23.07
(rounded)
192) Less than \$7; hundredths; \$5.18
193) 14; thousandths; 16.92
194) Smaller than 9.681; hundred-
thousandths; 4.45326
195) 13; ten-thousandths; 14.1363
196) 195; thousandths; 206.718
197) 32; thousandths; 36.784
198) Smaller than 1.575; millionths;
0.007875
199) 2002; thousandths; 2082.024
200) 9; millionths; 11.008223
201) 3290; thousandths; 3315.312
202) 31688; ten-thousandths;
31737.1344
203) \$24; ten-thousandths; \$25.46
204) \$65; hundredths; \$64.95
205) 131; 121.2
206) greater than 382.3; 764.6

207) 180; 180.3
208) 53; 53.427
209) 1; 1.359
210) 22; 23.5
211) 4; 4.08
212) greater than 1; 12.5
213) 58; 52.3
214) greater than 159.642; 325.8
215) 10; 8.37 gallons
216) 4; 4.6 hours p/day
217) greater than 364.26; 700.5
218) greater than 780.485; 7804.85
219) less than 21.7; 0.31
220) less than 5.36; 0.1
221) greater than 188.32; 470.8
222) 7; 8.079
223) greater than 28.42; 406
224) 77; 75.1
225) 20; 19.5
226) greater than 3.1278; 521.3
227) 3; 3.6 gallons

228) 15; 12.88 gallons
229) greater than 3.86; $21.\overline{44}$
230) greater than 38.24; $254.\overline{933}$
231) 8; $7.\overline{736}$
232) greater than 0.6; $0.\overline{66}$
233) greater than 96.86; $220.\overline{136}$
234) less than 0.15; $0.\overline{136}$
235) greater than 8; $36.\overline{36}$
236) 2; $1.4\overline{16}$
237) less than 1; $0.82\overline{36}$
238) greater than 0.55; $18.\overline{3}$
239) 30; $33.7\overline{22}$
240) greater than 0.7; $1.1\overline{66}$
241) greater than 61.3; $165.\overline{675}$
242) greater than 6.94; $23.1\overline{33}$
243) greater than 98.43; $266.\overline{027}$
244) greater than 0.305; $2.7\overline{72}$
245) 300; $275.\overline{151}$
246) less than 1; $0.\overline{75}$
247) less than 1; $0.19\overline{45}$
248) less than 1; $0.90\overline{4}$

Fraction and Decimal Computations Chapter Review

Multiple Choice Questions Answer Key

- | | | |
|------|-------|-------|
| 1) a | 7) b | 13) c |
| 2) d | 8) a | 14) a |
| 3) c | 9) b | 15) a |
| 4) b | 10) c | 16) a |
| 5) d | 11) a | 17) d |
| 6) d | 12) d | 18) c |

Short Constructed Response Questions Answer Key

- | | |
|----------------------|-------------------|
| 19) $2\frac{2}{7}$ | 23) 3.9123 |
| 20) $1\frac{14}{15}$ | 24) 874.5 |
| 21) 232.682 | 25) $642.\bar{2}$ |
| 22) 849.867 | |

Extended Constructed Response Questions Answer Key

26)

a. Answers may vary

b. $1\frac{1}{3}$

c. $1\frac{1}{3} \times \frac{1}{3} = \frac{4}{9}$

27)

a. $\$20 + 3 \times \$10 + \$5 + 6 \times \$0.25 + 11 \times \$0.10 + 8 \times \$0.05 = \$58$
was given to the cashier.

b. $\$58.00 - \$57.98 = \$0.02$ Stephanie should receive \$0.02 in change from the cashier.

28)

a. $3.4 + 8.6 + 14 = 26$ pounds

b. $\$2.49 + \$2.49 + (3.6 \times \$1.35) + \$2.49 + (9 \times \$1.35) = \24.48

29)

a. \$150 at the restaurant, $\$7.50 \times 8 \times 3 = \180 at the landscaping company

b. Sean should work at the landscaping company because he makes \$30 more per week there than at the restaurant.

30)

a. $5 \times \$0.45 = \2.25 , 5 postcards

b. $3 \times \$1.35 = \4.05 , 3 letters

c. $\$2.25 + \$4.05 = \$6.30$