Home Practice
Part 2. Solving Problems (TG p. 1)
**Questions 1–2**

1. Estimates will vary.
   10 pups $\times$ 36 litters $=$ 360 pups;
   20 pups $\times$ 36 litters $=$ 720 pups;
   Between 360 and 720. About 500 pups.

2. **A.** Less than 25,000 calories.
   $3000 \times 7 = 21{,}000$

   B. A boy should eat 2100 more calories than a girl in one week.
   300 per day more $\times$ 7 $=$ 2100 calories

Part 3. Improper Fractions and Mixed Numbers (TG p. 2)
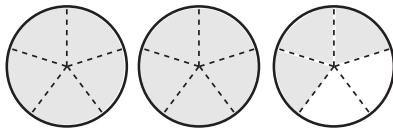**Questions 1–3**

Shapes of fractions may vary. Area must be the same as shown.
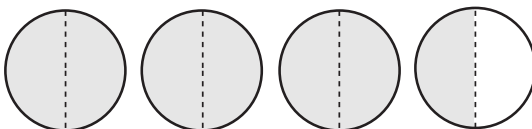
1. **A.** $1\frac{2}{3} = \frac{5}{3}$ **B.** $2\frac{3}{4} = \frac{11}{4}$
   C. $1\frac{1}{6} = \frac{7}{6}$ **D.** $3\frac{1}{6} = \frac{19}{16}$
   E. $1\frac{1}{6} = \frac{7}{6}$
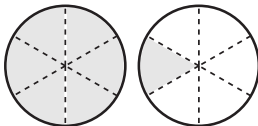
2. **A.** $\frac{13}{5}$ **B.** $\frac{13}{4}$
   C. $\frac{33}{10}$ **D.** $\frac{29}{8}$
   E. $2\frac{3}{5} = \frac{13}{5}$

3. **A.** $2\frac{1}{6}$ **B.** $3\frac{1}{2}$
   C. $3\frac{1}{3}$ **D.** $2\frac{4}{5}$
   E. $\frac{7}{2} = 3\frac{1}{2}$

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Name _____ Date _____

Part 2 Solving Problems

Show or tell how to solve each problem. Choose an appropriate method for each: mental math, paper-and-pencil, or a calculator.

1. A mouse can have a litter of as many as 16 pups. A mouse can have up to 6 litters each year. About how many mice can one mouse produce in 6 years?

2. The U.S. government recommends that girls between the ages of 9 and 13 take in about 1900 calories of food a day. Boys of the same age should take in about 2200 calories.

   A. A boy follows these guidelines. Will he consume more or less than 25,000 calories in one week?

   B. In one week, how many more calories should a boy eat than a girl?

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Name _____ Date _____

Part 3 Improper Fractions and Mixed Numbers

Use the *Fraction Chart* or *Fractions on Number Lines Chart* in the *Student Guide* Reference section.

1. Complete each number sentence.
   A. $1\frac{2}{3} = \frac{n}{3}$ n = _____   **B.** $2\frac{3}{4} = \frac{n}{4}$ n = _____
   C. $1\frac{1}{6} = \frac{n}{6}$ n = _____   **D.** $3\frac{1}{6} = \frac{n}{6}$ n = _____
   E. Draw a picture that represents your answer for Question 1C.

2. Write each mixed number as an improper fraction.
   A. $2\frac{3}{5} =$ _____   **B.** $3\frac{1}{4} =$ _____
   C. $3\frac{3}{10} =$ _____   **D.** $3\frac{5}{8} =$ _____
   E. Draw a picture that represents your answer for Question 2A.

3. Write each improper fraction as a mixed number.
   A. $\frac{13}{6} =$ _____   **B.** $\frac{7}{2} =$ _____
   C. $\frac{10}{3} =$ _____   **D.** $\frac{14}{5} =$ _____
   E. Draw a picture that represents your answer for Question 3B.
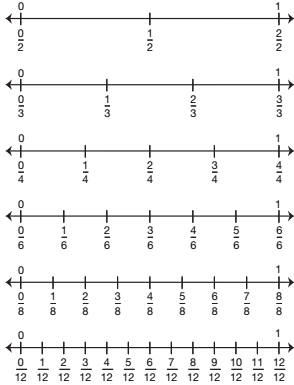
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Part 4. Fractions (TG p. 3)
Questions 1–6

Answers will vary. One possible solution is given for each.

1. $\frac{2}{6}$

2. $\frac{2}{3}$

3. $\frac{1}{4}$

4. $\frac{5}{8}$

5. $\frac{7}{8}$

6. I found $\frac{6}{8}$ on the number lines and then found $\frac{11}{12}$. $\frac{11}{12}$ is closer to 1 but less than 1.
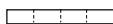

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Part 5. Representing Fractions (TG p. 4)
Questions A–D

A.

B.

C.

D.

Part 6. A Fraction More (TG p.5)
Questions 1–4

1. **A.** $\frac{1}{3} = \frac{2}{6}$ **B.** $\frac{9}{12} = \frac{3}{4}$ **C.** $\frac{2}{6} = \frac{4}{12}$
   D. $\frac{5}{8} = \frac{15}{24}$ **E.** $\frac{20}{70} = \frac{2}{7}$ **F.** $\frac{7}{9} = \frac{28}{36}$
   G. $\frac{3}{5} = \frac{15}{25}$ **H.** $\frac{4}{40} = \frac{1}{10}$ **I.** $\frac{2}{3} = \frac{8}{12}$

2. **A.** $\frac{5}{4}$
   B. $\frac{17}{3}$
   C. $\frac{23}{8}$
   D. $\frac{18}{5}$

3. **A.** $2\frac{1}{4}$
   B. $3\frac{2}{6}$ or $3\frac{1}{3}$
   C. $10\frac{1}{2}$
   D. $1\frac{11}{12}$

4. **A.** $\frac{9}{12}, \frac{9}{10}, \frac{9}{5}, \frac{9}{2}$
   B. $\frac{1}{8}, \frac{7}{12}, \frac{5}{6}, \frac{8}{7}$
   C. $\frac{2}{6}, \frac{3}{6}, \frac{6}{6}, \frac{10}{6}$
   D. $\frac{3}{20}, \frac{9}{16}, \frac{9}{11}, \frac{3}{2}$

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Part 7. Fraction Number Lines (TG p. 6)
Questions 1–7

Answers will vary. Possible solutions are given for each.

1. $\frac{2}{6}, \frac{3}{8}, \frac{4}{12}, \frac{5}{12}$
2. $\frac{1}{6}, \frac{1}{8}, \frac{1}{12}, \frac{2}{12}, \frac{0}{2}, \frac{0}{3}, \frac{0}{4}, \frac{0}{6}, \frac{0}{8}, \frac{0}{12}$
3. $\frac{2}{8}$
4. $\frac{4}{6}, \frac{8}{12}$
5. $\frac{2}{6}, \frac{2}{8}, \frac{3}{12}, \frac{4}{12}$
6. $\frac{5}{6}, \frac{7}{8}, \frac{10}{12}$
7. $\frac{2}{4}, \frac{3}{6}, \frac{4}{8}, \frac{6}{12}$

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