Name _____ Date _____

Ordering Fractions

✓ Self-Check: Question 1

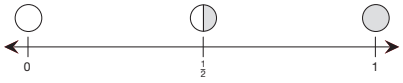
Write each fraction in the circle that it matches. Use circles pieces to help you.

1. $\frac{3}{12}$ $\frac{1}{8}$ $\frac{3}{10}$ $\frac{2}{3}$ $\frac{3}{5}$ $\frac{2}{4}$

A.  B.  C. 

D.  E.  F. 

G. Write each fraction where it belongs on the number line.



Use the Self-Check Question and the menu to check your progress and choose practice with connecting representations of fractions and ordering fractions on a number line using $\frac{1}{2}$ as a benchmark.

Can I Do This?	Working On It! (I could use some extra help.)	Getting It! (I just need some more practice.)	Got It! (I'm ready for a challenge.)
Make connections among representations. Compare and order fractions using $\frac{1}{2}$ as a benchmark.	★ Q# 2–5	● Q# 3–5, 7	■ Q# 4–6

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Use tools such as the Fraction Chart, circle pieces, or pictures to complete Questions 1–6.

★2. Sort the fractions below into the table.

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

Less than $\frac{1}{2}$	Equal to $\frac{1}{2}$	More than $\frac{1}{2}$

★●3. Sort the fractions below into the table.

$3 \times \frac{1}{12}, \frac{4}{8}, \frac{2}{6}, 1 \times \frac{1}{4}, \frac{0}{3}, \frac{9}{10}, \frac{1}{12}, 5 \times \frac{2}{12}, \frac{7}{10}, \frac{1}{10} + \frac{1}{10}, \frac{1}{3}, \frac{4}{5}, 2 \times \frac{2}{6}, \frac{3}{6}, \frac{5}{10}$

Less than $\frac{1}{2}$	Equal to $\frac{1}{2}$	More than $\frac{1}{2}$

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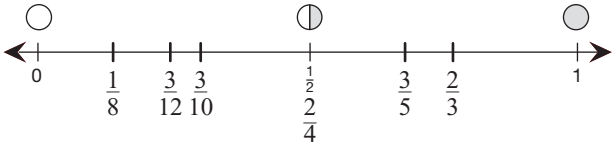
Ordering Fractions

Questions 1–7 (SAB pp. 309–312)

1. A. $\frac{2}{3}$
   B. $\frac{2}{4}$
   C. $\frac{3}{5}$
   D. $\frac{1}{8}$
   E. $\frac{3}{12}$
   F. $\frac{3}{10}$
   G.



2.

Less than $\frac{1}{2}$	Equal to $\frac{1}{2}$	More than $\frac{1}{2}$
$\frac{1}{6}, \frac{2}{5}, \frac{3}{8}$	$\frac{2}{4}, \frac{3}{6}, \frac{4}{8}, \frac{6}{12}$	$\frac{2}{3}, \frac{4}{4}, \frac{7}{6}, \frac{8}{10}$ $\frac{3}{5}, \frac{10}{12}$

3.

Less than $\frac{1}{2}$	Equal to $\frac{1}{2}$	More than $\frac{1}{2}$
$3 \times \frac{1}{12}, \frac{2}{6}$ $1 \times \frac{1}{4}, \frac{0}{3}, \frac{1}{12},$ $\frac{2}{10}, \frac{1}{3}$	$\frac{4}{8}, \frac{3}{6}, \frac{5}{10}$	$\frac{9}{10}, 5 \times \frac{2}{12}, \frac{7}{10}$ $\frac{7}{10}, \frac{4}{5}, 2 \times \frac{2}{6}$

4. A. $\frac{5}{8} > \frac{1}{2}, \frac{2}{6} < \frac{1}{2}, \frac{2}{6} < \frac{5}{8}$

B. $\frac{3}{6} = \frac{1}{2}, \frac{7}{8} > \frac{1}{2}, \frac{3}{6} < \frac{7}{8}$

C. $\frac{6}{10} > \frac{1}{2}, \frac{5}{12} < \frac{1}{2}, \frac{5}{12} < \frac{6}{10}$

D. Responses will vary. Possible response: $\frac{5}{6} > \frac{1}{2}$ and $\frac{4}{8} = \frac{1}{2}$ so $\frac{5}{6} > \frac{4}{8}$

5. A. $\frac{9}{10}$

B. $\frac{7}{12}$

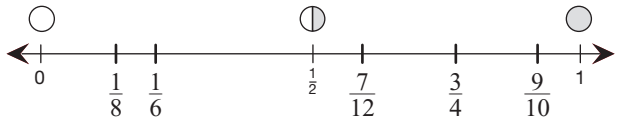
C. $\frac{3}{4}$

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

E. $\frac{1}{8}$

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

G.



6. A. $\frac{3}{9}$

B. $\frac{1}{7}$

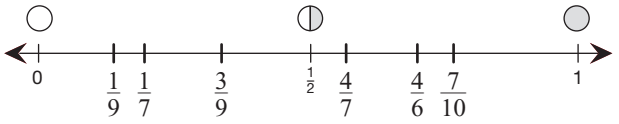
C. $\frac{4}{7}$

D. $\frac{4}{6}$

E. $\frac{1}{9}$

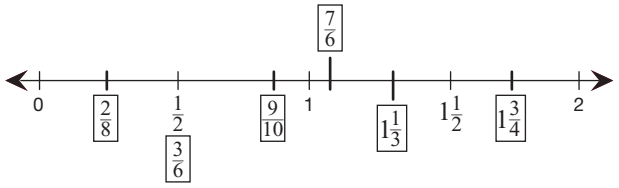
F. $\frac{7}{10}$

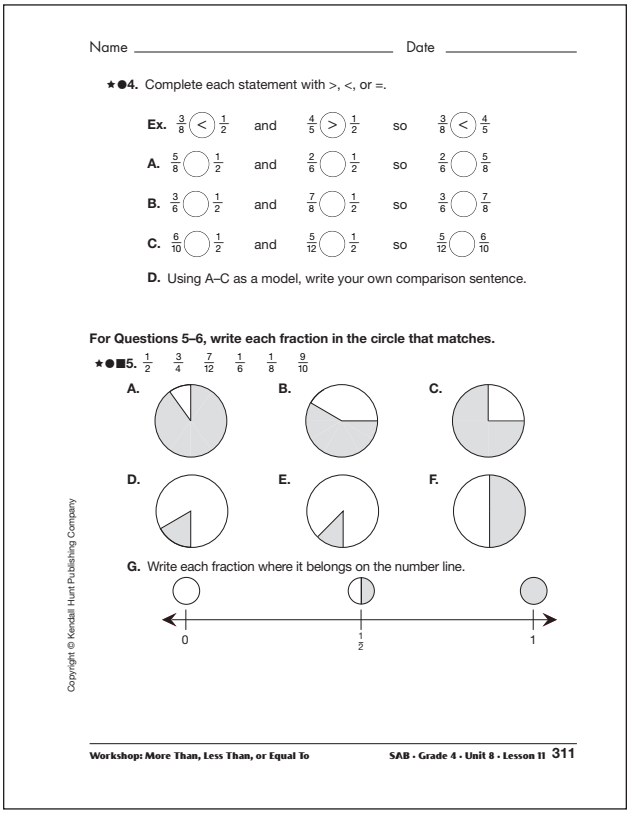
G.



7. A. $\frac{2}{8}$ yd, $\frac{3}{6}$ yd, $\frac{7}{6}$ yd, $\frac{9}{10}$ yd, $1\frac{1}{3}$ yd, $1\frac{3}{4}$ yd

B. Possible response: I thought of a number line with the numbers 0, $\frac{1}{2}$, 1, $\frac{11}{2}$, and 2 on it. I saw that $\frac{2}{8}$ was the only fraction that was less than $\frac{1}{2}$, so I knew the ball of string with $\frac{2}{8}$ yards was the smallest. I knew that $\frac{3}{6}$ is equal to $\frac{1}{2}$ and $\frac{9}{10}$ is close to one, so I knew that the ball of string with $\frac{3}{6}$ yards was smaller than the ball of string with $\frac{9}{10}$ yards . The other balls of string all had more than 1 yard of string on them. I knew that $\frac{7}{6}$ yards = $1\frac{1}{6}$ yards and $\frac{1}{6}$ is less than $\frac{1}{3}$, so the ball of string with $\frac{7}{6}$ yards is smaller than the ball of string with $1\frac{1}{3}$ yards. $1\frac{3}{4}$ is close to 2, so that was the largest ball of string.





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★●4. Complete each statement with >, <, or =.

Ex. $\frac{3}{8} < \frac{1}{2}$ and $\frac{4}{5} > \frac{1}{2}$ so $\frac{3}{8} < \frac{4}{5}$

A. $\frac{5}{8} \bigcirc \frac{1}{2}$ and $\frac{2}{6} \bigcirc \frac{1}{2}$ so $\frac{2}{6} \bigcirc \frac{5}{8}$

B. $\frac{3}{6} \bigcirc \frac{1}{2}$ and $\frac{7}{8} \bigcirc \frac{1}{2}$ so $\frac{3}{6} \bigcirc \frac{7}{8}$

C. $\frac{6}{10} \bigcirc \frac{1}{2}$ and $\frac{5}{12} \bigcirc \frac{1}{2}$ so $\frac{5}{12} \bigcirc \frac{6}{10}$

D. Using A–C as a model, write your own comparison sentence.

For Questions 5–6, write each fraction in the circle that matches.

★●■5. $\frac{1}{2}$ $\frac{3}{4}$ $\frac{7}{12}$ $\frac{1}{6}$ $\frac{1}{8}$ $\frac{9}{10}$

A. B. C.

D. E. F.

G. Write each fraction where it belongs on the number line.

0 1/2 1

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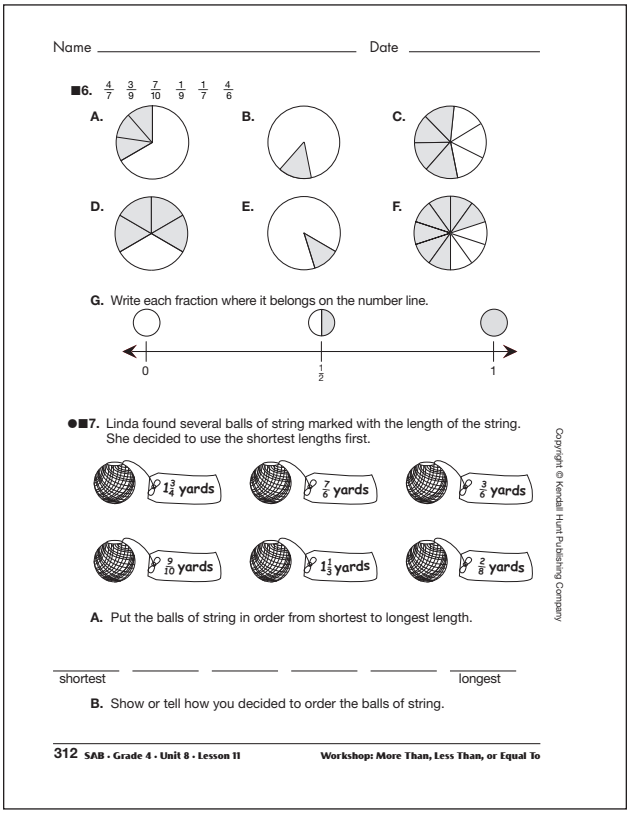

Name _____ Date _____

■6. $\frac{4}{7}$ $\frac{3}{9}$ $\frac{7}{10}$ $\frac{1}{9}$ $\frac{1}{7}$ $\frac{4}{6}$

A. B. C.

D. E. F.

G. Write each fraction where it belongs on the number line.

0 1/2 1

●■7. Linda found several balls of string marked with the length of the string. She decided to use the shortest lengths first.

$1\frac{3}{4}$ yards $\frac{7}{6}$ yards $\frac{3}{6}$ yards

$\frac{9}{10}$ yards $1\frac{1}{3}$ yards $\frac{2}{8}$ yards

A. Put the balls of string in order from shortest to longest length.

shortest _____ _____ _____ _____ longest

B. Show or tell how you decided to order the balls of string.

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