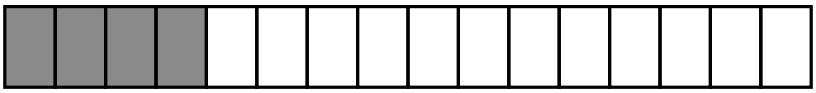
TEKS 4.3(D) Comparing Fractions

Question 1

The model below is shaded to represent a fraction.



Which fraction is greater than the fraction represented by the model?

A $\frac{2}{6}$

B $\frac{2}{12}$

C $\frac{3}{16}$

D $\frac{1}{8}$

Question 2

The model below is shaded to represent a fraction.

Which fraction is less than the fraction represented by the model?

A $\frac{3}{4}$

B $\frac{5}{6}$

C $\frac{1}{2}$

D $\frac{7}{8}$

TEKS 4.3(D) Comparing Fractions

Question 3

Which fraction makes this comparison true?

$$\frac{5}{6} < \square$$

A $\frac{3}{4}$

B $\frac{9}{10}$

C $\frac{2}{3}$

D $\frac{4}{6}$

Question 4

Which fraction is greater than $\frac{7}{4}$?

A $\frac{5}{4}$

B $\frac{3}{2}$

C $\frac{12}{8}$

D $\frac{9}{5}$

TEKS 4.3(D) Comparing Fractions

Question 5

Which fraction is greater than $1\frac{3}{8}$?

A $\frac{12}{8}$

B $\frac{10}{8}$

C $\frac{5}{4}$

D $\frac{9}{8}$

Question 6

Which comparison is true?

A $\frac{3}{8} > \frac{1}{2}$

B $\frac{2}{5} = \frac{4}{5}$

C $\frac{5}{6} < \frac{2}{3}$

D $\frac{3}{4} > \frac{5}{8}$

TEKS 4.3(D) Comparing Fractions

Question 7

The table shows the widths of two ribbons Mrs. Vega bought for a craft project.

Ribbon	Width (yard)
Blue	$\frac{5}{8}$
Green	$\frac{3}{4}$

Which comparison correctly shows how the widths of the ribbons are related?

A $\frac{5}{8} > \frac{3}{4}$

B $\frac{3}{4} > \frac{5}{8}$

C $\frac{5}{8} = \frac{3}{4}$

D $\frac{3}{4} < \frac{5}{8}$

Question 8

Ana ate $\frac{3}{8}$ of her sandwich at lunch. Which statement is true?

A Ana ate more than $\frac{1}{2}$ of her sandwich.

B Ana ate exactly $\frac{1}{2}$ of her sandwich.

C Ana ate less than $\frac{1}{2}$ of her sandwich.

D Ana ate more than 1 whole sandwich.

TEKS 4.3(D) Comparing Fractions

Question 9

Compare the two fractions below.

$\frac{4}{6}$ ☐ $\frac{5}{9}$

Write the symbol >, <, or = in the box to make the comparison true.

Question 10

The model below is shaded to represent a fraction.

Select TWO fractions that are less than the fraction represented by the model.

☐ $\frac{2}{4}$ ☐ $\frac{7}{8}$ ☐ $\frac{5}{8}$ ☐ $\frac{4}{4}$ ☐ $\frac{5}{6}$

TEKS 4.3(D) Comparing Fractions

Answer Key

1. A — $\frac{2}{6}$

The model shows $\frac{4}{16} = \frac{1}{4}$. Compare: $\frac{2}{6} = \frac{1}{3}$, and $\frac{1}{3} > \frac{1}{4}$ ✔. The others are all less than $\frac{1}{4}$: $\frac{2}{12} = \frac{1}{6}$, $\frac{3}{16} < \frac{4}{16}$, and $\frac{1}{8} = \frac{2}{16}$.

2. C — $\frac{1}{2}$

The model shows $\frac{8}{12} = \frac{2}{3}$. $\frac{1}{2} = \frac{6}{12}$, and $\frac{6}{12} < \frac{8}{12}$ ✔. The others are all greater than $\frac{8}{12}$: $\frac{3}{4} = \frac{9}{12}$, $\frac{5}{6} = \frac{10}{12}$, and $\frac{7}{8}$ is even closer to 1.

3. B — $\frac{9}{10}$

$\frac{5}{6}$ is $\frac{1}{6}$ away from 1 whole; $\frac{9}{10}$ is only $\frac{1}{10}$ away from 1 whole, so $\frac{9}{10}$ is closer to 1 and greater: $\frac{5}{6} < \frac{9}{10}$ ✔. $\frac{3}{4}$, $\frac{2}{3}$, and $\frac{4}{6}$ are all less than $\frac{5}{6}$.

4. D — $\frac{9}{5}$

$\frac{7}{4} = 1\frac{3}{4} = 1.75$. $\frac{9}{5} = 1\frac{4}{5} = 1.8$, which is greater ✔. $\frac{5}{4} = 1.25$, and both $\frac{3}{2}$ and $\frac{12}{8}$ equal $1\frac{1}{2} = 1.5$ — all less than $\frac{7}{4}$.

5. A — $\frac{12}{8}$

$1\frac{3}{8} = \frac{11}{8}$. $\frac{12}{8} > \frac{11}{8}$ ✔. $\frac{10}{8} < \frac{11}{8}$; $\frac{5}{4} = \frac{10}{8} < \frac{11}{8}$; $\frac{9}{8} < \frac{11}{8}$.

6. D — $\frac{3}{4} > \frac{5}{8}$

$\frac{3}{4} = \frac{6}{8}$, and $\frac{6}{8} > \frac{5}{8}$ ✔. Check the others: $\frac{3}{8} < \frac{1}{2}$; $\frac{2}{5} \neq \frac{4}{5}$; $\frac{5}{6} > \frac{2}{3}$ (not less).

7. B — $\frac{3}{4} > \frac{5}{8}$

Use a common denominator of 8: $\frac{3}{4} = \frac{6}{8}$. Since $\frac{6}{8} > \frac{5}{8}$, the green ribbon is wider than the blue ribbon: $\frac{3}{4} > \frac{5}{8}$.

8. C

$\frac{1}{2}$ of the sandwich would be $\frac{4}{8}$. Ana ate $\frac{3}{8}$, and $\frac{3}{8} < \frac{4}{8}$, so she ate less than $\frac{1}{2}$ of her sandwich.

9. >

Use a common denominator of 18: $\frac{4}{6} = \frac{12}{18}$ and $\frac{5}{9} = \frac{10}{18}$. Since $\frac{12}{18} > \frac{10}{18}$, the symbol is >.

10. $\frac{2}{4}$ AND $\frac{5}{8}$

The model shows $\frac{6}{8} = \frac{3}{4}$. $\frac{2}{4} = \frac{4}{8} < \frac{6}{8}$ ✔. $\frac{5}{8} < \frac{6}{8}$ ✔. $\frac{7}{8} > \frac{6}{8}$ ✗. $\frac{4}{4} = \frac{8}{8} > \frac{6}{8}$ ✗. $\frac{5}{6} = \frac{20}{24} > \frac{6}{8} = \frac{18}{24}$ ✗.