

# Tier 2 Mathematics Intervention

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Module: *Fraction & Decimal Relationships (FDR)*

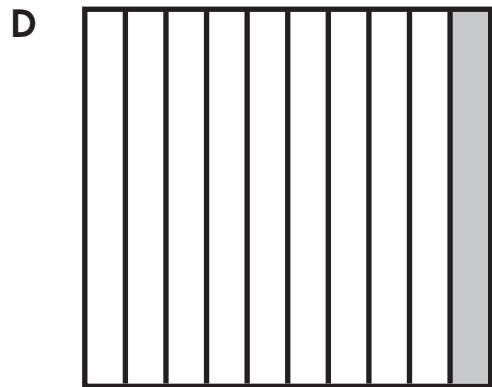
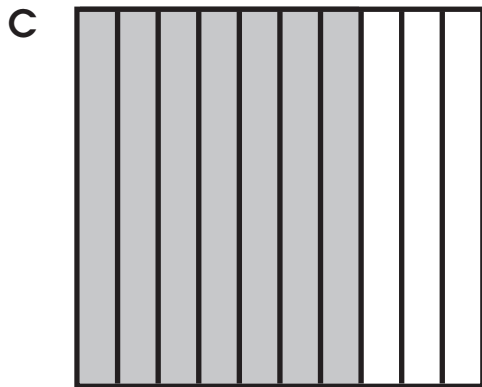
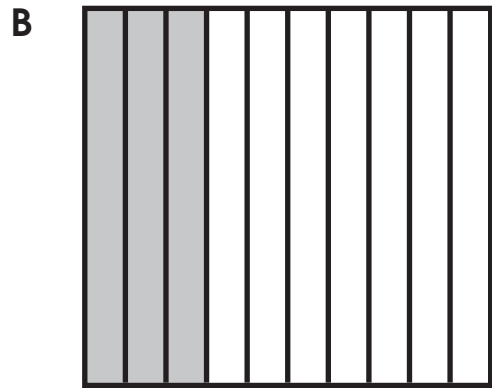
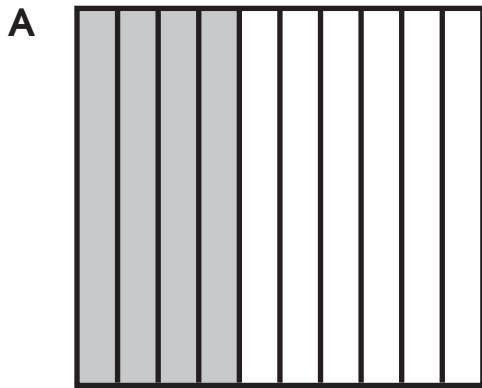
## Form A Assessment

**Name** \_\_\_\_\_

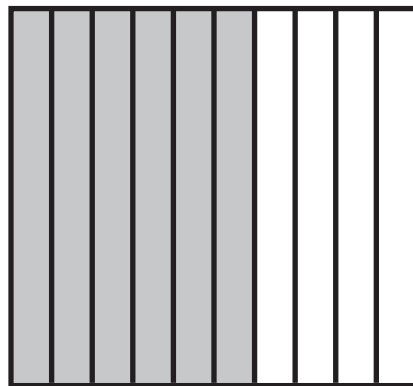
**Date** \_\_\_\_\_

**Teacher** \_\_\_\_\_

1.) Alex ate  $\frac{3}{10}$  of the lasagna. Choose the model to represent the amount of lasagna Alex ate.



2.) Choose the correct fraction for the shaded part of this model.



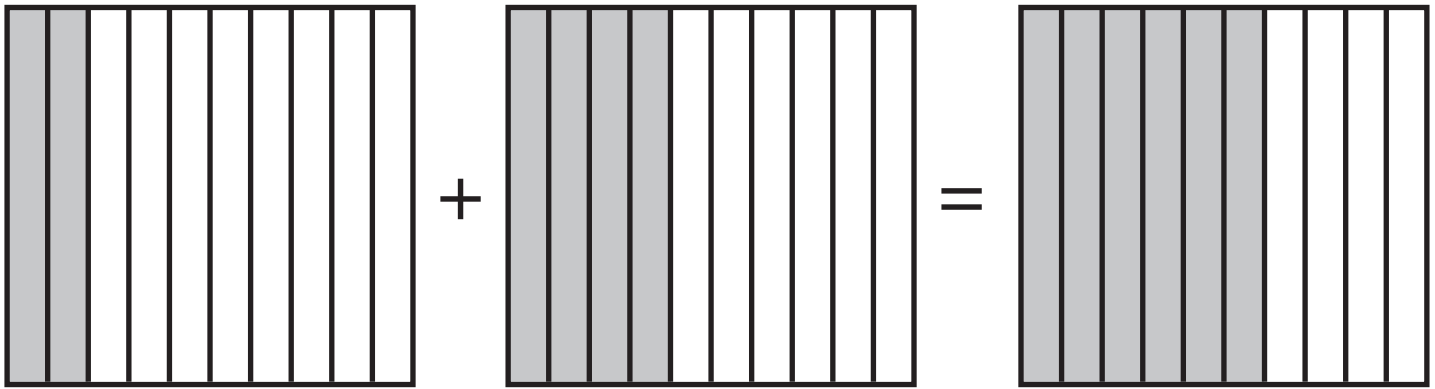
**A**  $\frac{5}{10}$

**B**  $\frac{6}{4}$

**C**  $\frac{6}{10}$

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

3.) Choose the correct number sentence for the picture.



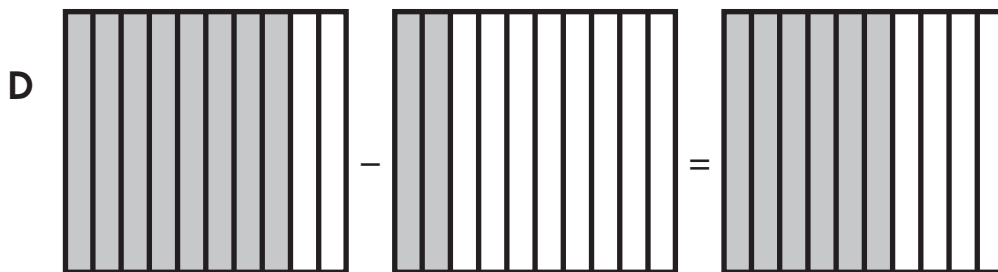
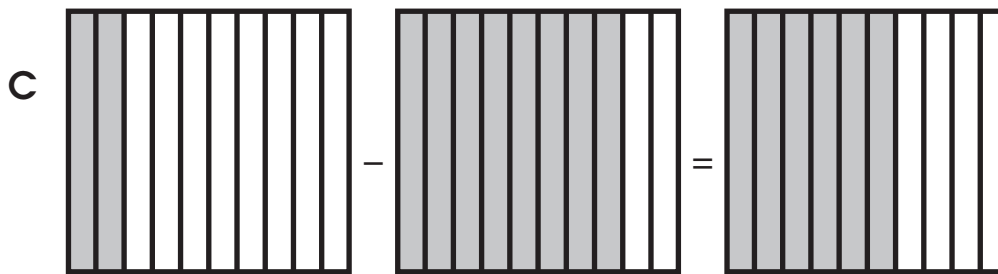
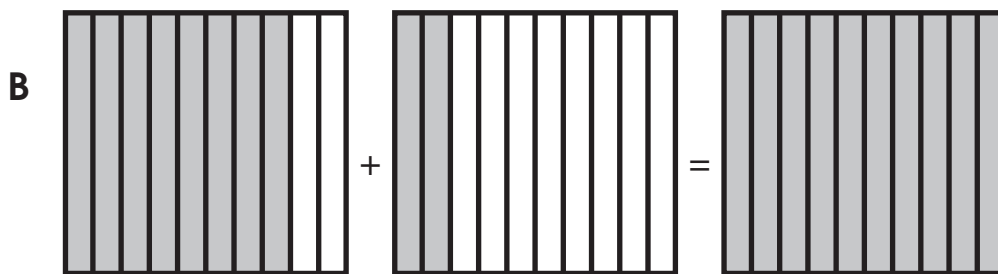
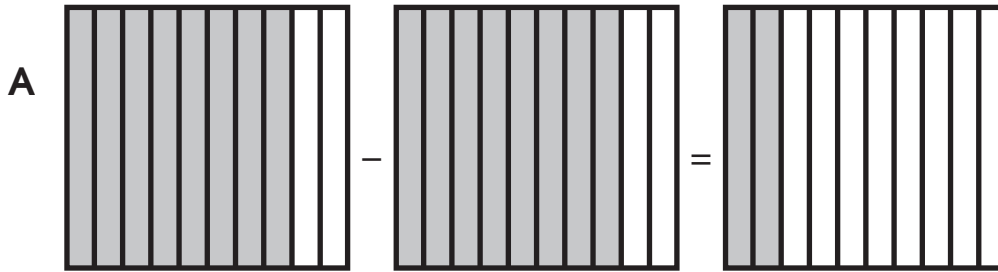
**A**  $\frac{2}{10} + \frac{4}{10} = \frac{6}{10}$

**C**  $\frac{8}{10} + \frac{4}{10} = \frac{6}{10}$

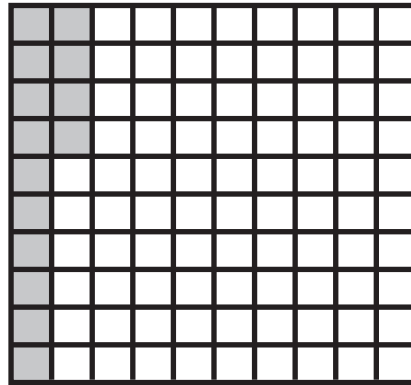
**B**  $\frac{2}{8} + \frac{4}{6} = \frac{6}{14}$

**D**  $\frac{2}{10} + \frac{6}{10} = \frac{8}{10}$

4.) Choose the correct picture used to solve this problem. Julie ran  $\frac{8}{10}$  of a mile. Dan ran  $\frac{2}{10}$  of a mile less than Julie. How far did Dan run?



5.) Choose the fraction for the shaded model.



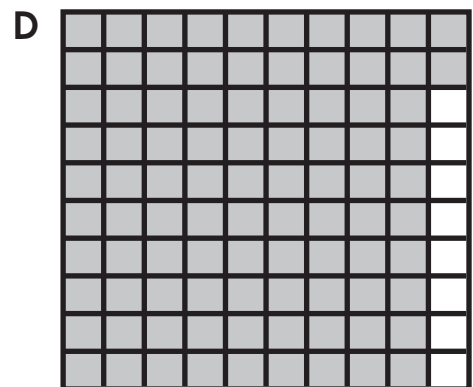
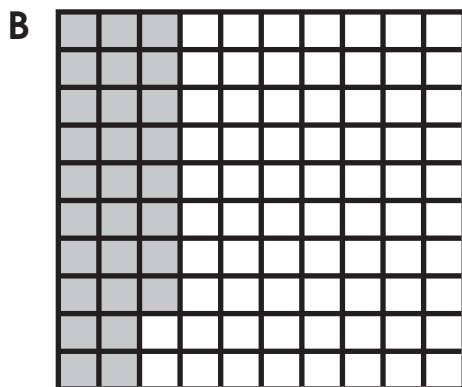
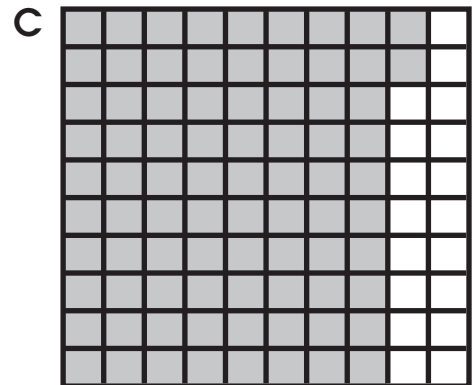
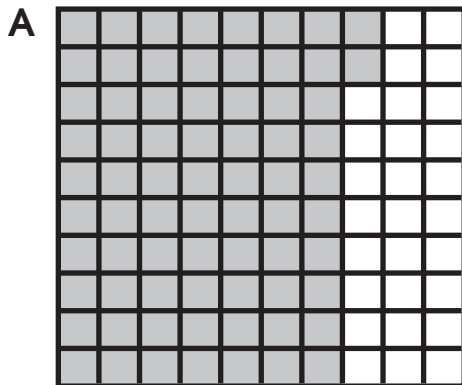
A  $\frac{14}{96}$

B  $\frac{14}{100}$

C  $\frac{14}{10}$

D  $\frac{86}{100}$

6.) Choose the model that shows  $\frac{82}{100}$ .



7.) Choose the correct fraction for eight-hundredths.

**A**  $\frac{8}{10}$

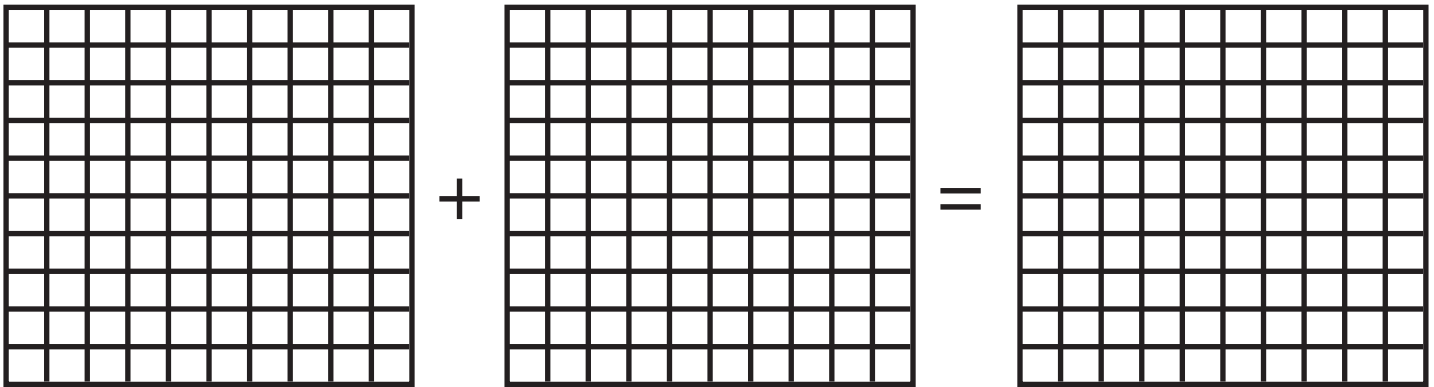
**B**  $\frac{80}{100}$

**C**  $\frac{8}{100}$

**D**  $\frac{18}{100}$

8.) Choose the correct answer.

$$\frac{37}{100} + \frac{21}{100} = \underline{\hspace{2cm}}$$



**A**  $\frac{50}{100}$

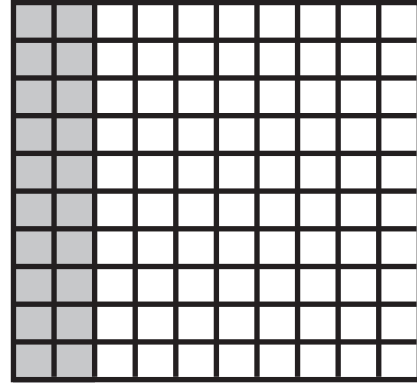
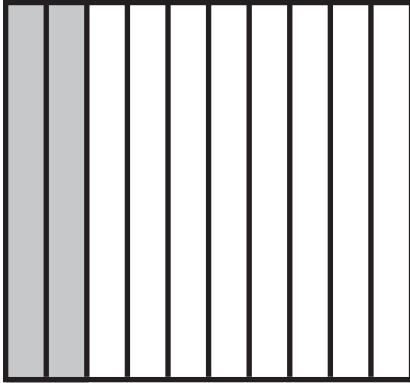
**B**  $\frac{91}{100}$

**C**  $\frac{85}{100}$

**D**  $\frac{58}{100}$

Using the model, choose the correct equivalent fraction.

9.)



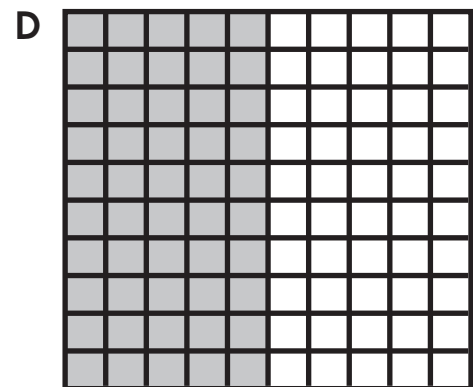
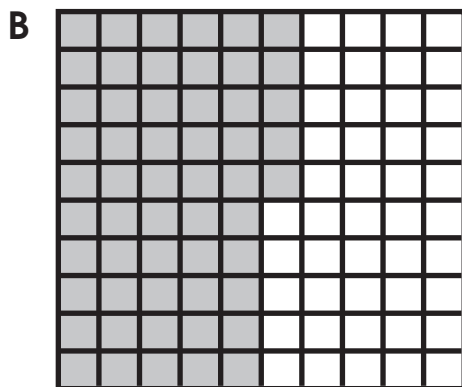
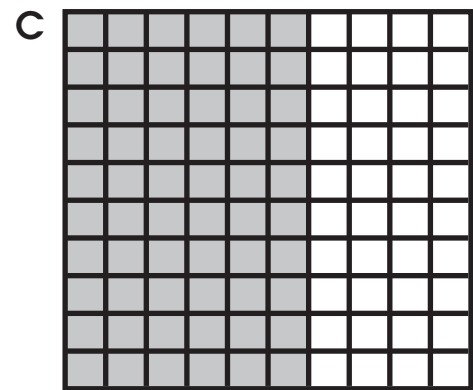
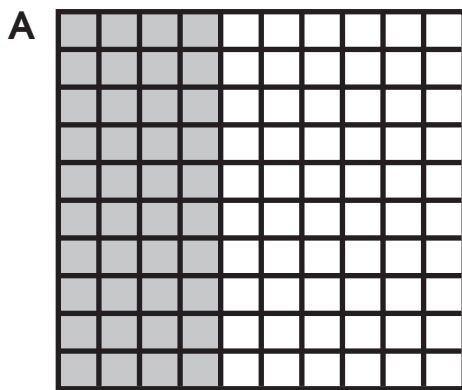
**A**  $\frac{2}{10} = \frac{20}{100}$

**C**  $\frac{2}{10} = \frac{2}{100}$

**B**  $\frac{8}{10} = \frac{20}{100}$

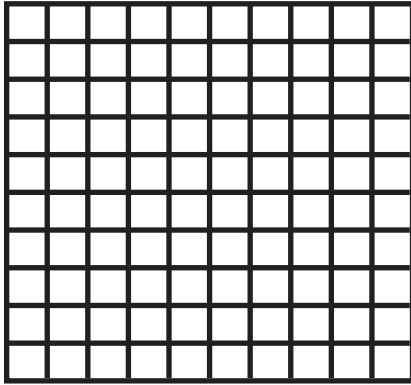
**D**  $\frac{2}{8} = \frac{20}{100}$

10.) Choose the model that represents the number of hundredths that are equivalent to  $\frac{5}{10}$ .

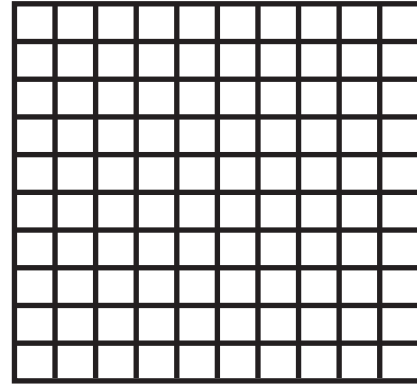


Use the model to solve the problem.

- 11.) Martin walks  $\frac{76}{100}$  of a mile to school. Christina walks  $\frac{8}{10}$  of a mile to school. Who walks further to school?



$$\frac{76}{100}$$



$$\frac{8}{10} = \frac{\quad}{100}$$

- A Martin
- B They walked the same distance.
- C Christina
- D none of the above

- 12.) Choose the letter that shows the fractions compared correctly.

A  $\frac{4}{10} < \frac{38}{100}$

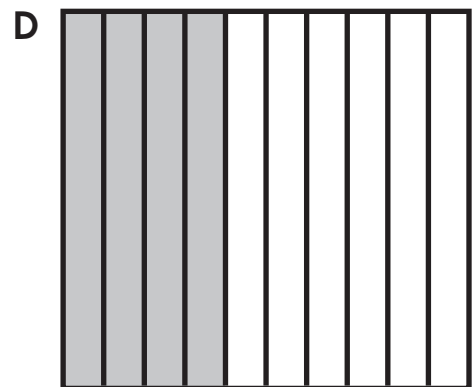
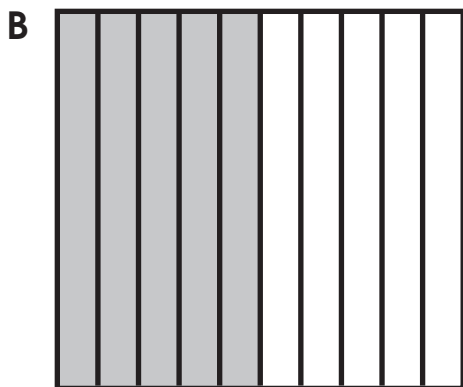
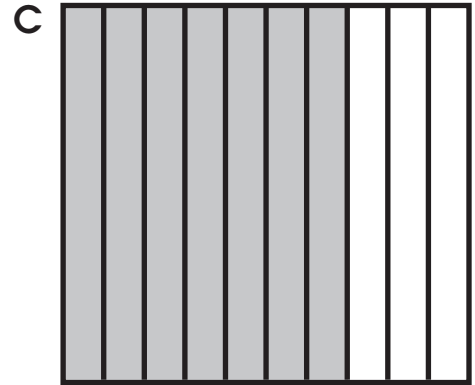
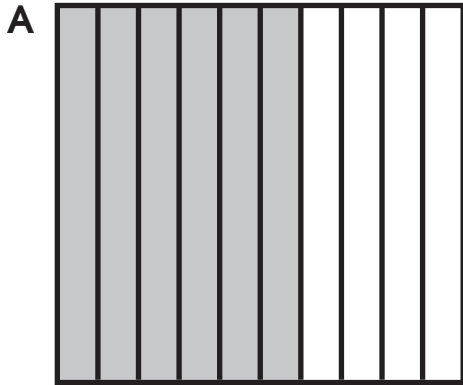
C  $\frac{5}{10} < \frac{54}{100}$

B  $\frac{8}{10} > \frac{81}{100}$

D  $\frac{33}{100} < \frac{3}{10}$



13.) Choose the letter of the model with 0.6 shaded.



14.) Which fraction represents the decimal number 0.9?

**A** 9

**C**  $\frac{99}{100}$

**B**  $\frac{9}{10}$

**D**  $\frac{7}{100}$

15.) Which fraction represents the decimal number 0.21?

**A**  $\frac{2}{10}$

**C**  $\frac{21}{100}$

**B**  $\frac{20}{100}$

**D**  $\frac{21}{10}$

**16.)** Micah was recording information in science class. His lab partner stated it rained one and thirty-six hundredths of an inch. Which of the following decimal numbers should Micah write on his paper?

- A** 1.26
- B** 0.36
- C** 1.06
- D** 1.36

Choose the correct decimal number for the place value chart.

**17.)**

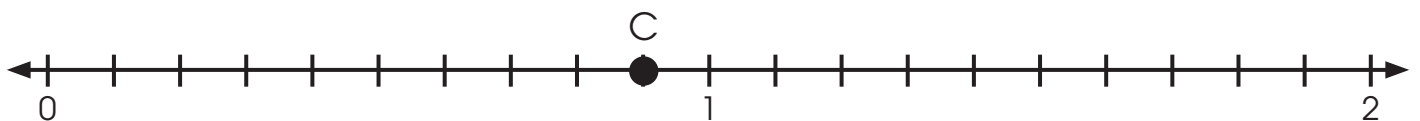
ones	tenths	hundredths
8	6	3

- A** 8.63
- B** 0.863
- C** 8.063
- D** 80.63

**18.)** Choose the letter that shows the expanded notation for 6.38.

- A**  $6 + 0.8 + 0.03$
- B**  $600 + 30 + 8$
- C**  $6 + 0.3 + 0.08$
- D**  $6 + 3 + 8$

**19.)** Choose the fraction that represents point C?



**A**  $\frac{10}{11}$

**C**  $\frac{9}{12}$

**B**  $\frac{9}{9}$

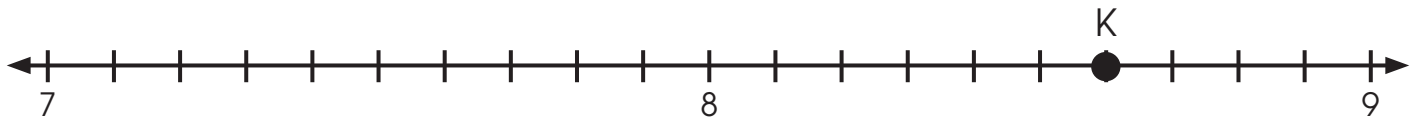
**D**  $\frac{9}{10}$

20.) Choose the decimal that represents point L?



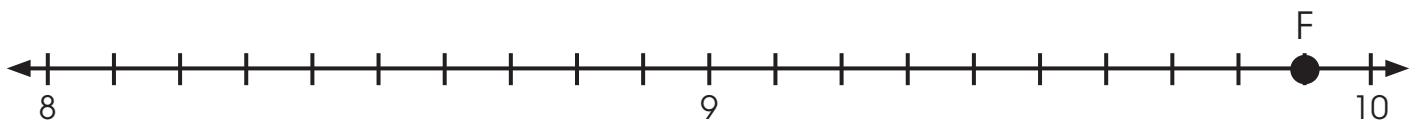
- A 1.5
- B 0.15
- C 1.05
- D 0.05

21.) Choose the fraction for point K.



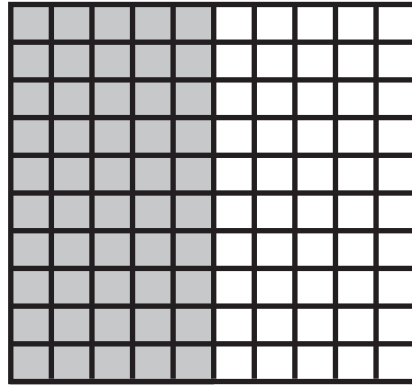
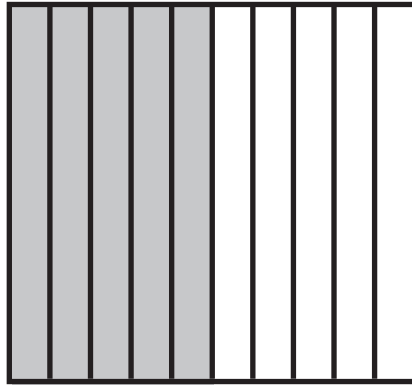
- A  $8\frac{5}{100}$
- B  $8\frac{6}{10}$
- C  $9\frac{4}{10}$
- D  $\frac{6}{10}$

22.) Jayden is finding points on a number line. What decimal best represents point F?



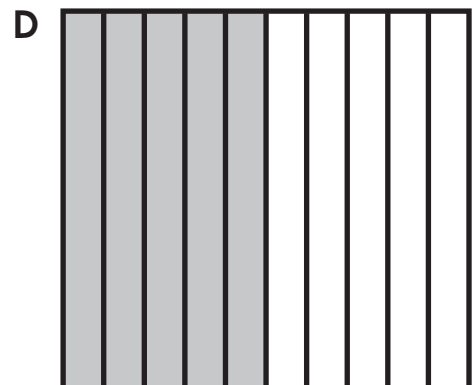
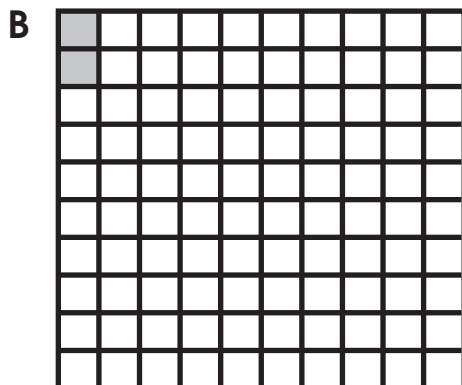
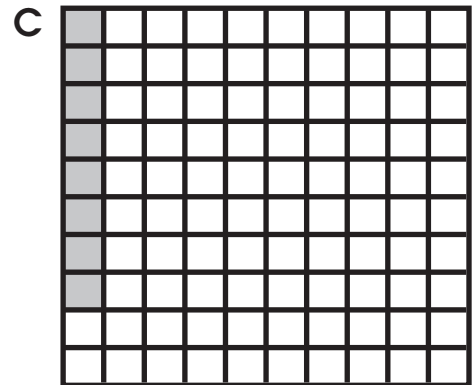
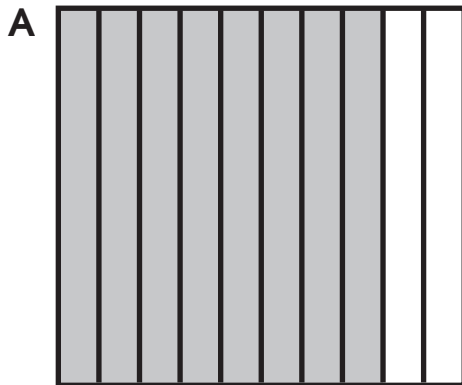
- A 10
- B 8.9
- C 9.7
- D 9.9

23.) Which statement is true about the shaded models below?



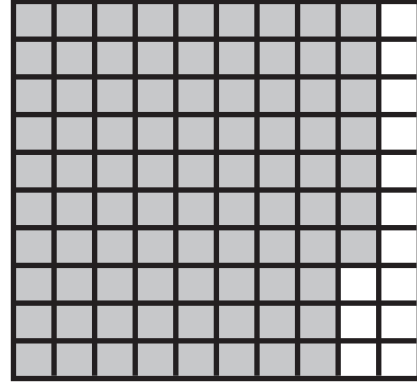
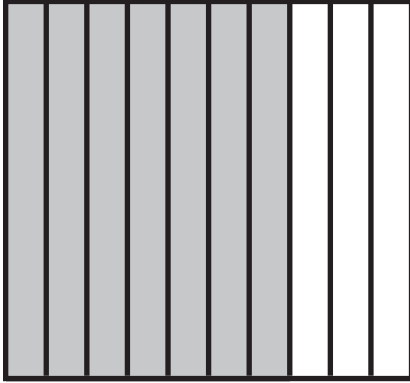
- A  $0.50 > 0.5$
- B  $0.5 = 0.50$
- C  $0.5 = 0.05$
- D  $0.50 < 0.5$

24.) Choose the model that represents the equivalence to 0.80.



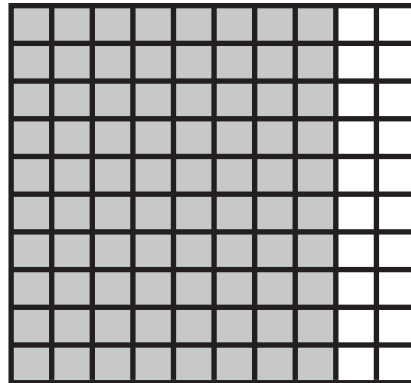
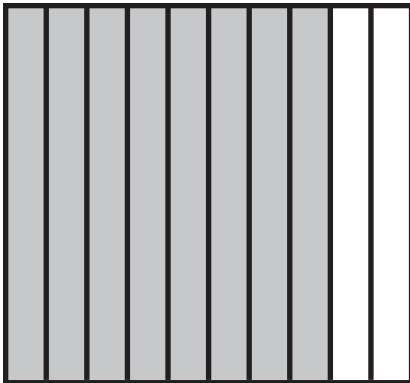
Choose the correct comparison sentence for the model.

25.)



- A  $0.7 > 0.87$
- B  $0.7 = 0.87$
- C  $0.7 < 0.87$
- D  $0.7 > 0.78$

26.)



0.8

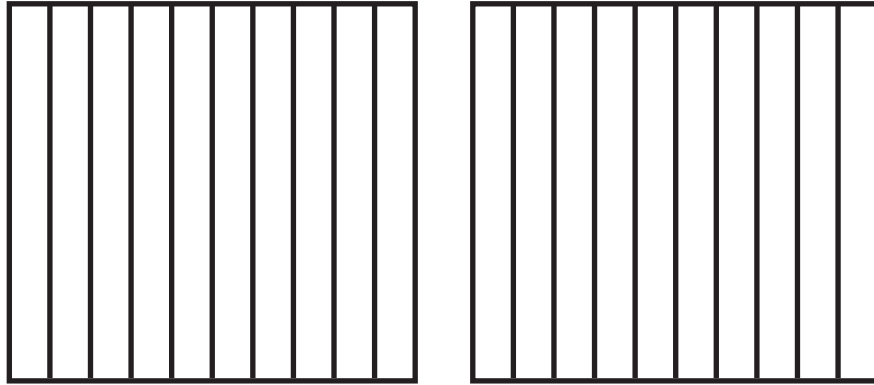


0.80

Which of the following makes the statement true?

- A =
- B <
- C >

27.) Shade then choose  $>$ ,  $<$ , or  $=$ , to make a true statement.



0.2



0.5

**A** =

**B** <

**C** >

28.) Which decimal number makes the statement true?

$$0.26 < \underline{\hspace{2cm}}$$

**A** 0.2

**B** 0.20

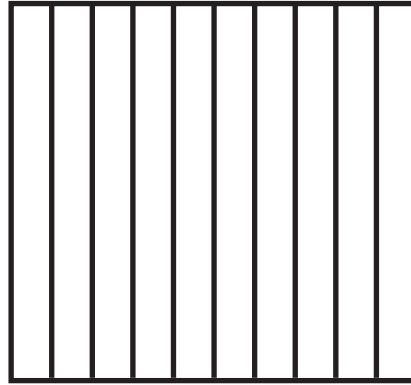
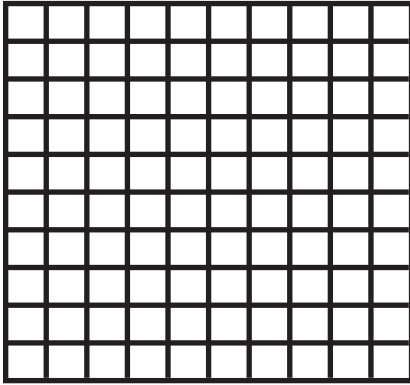
**C** 0.4

**D** 0.25



Shade then choose  $>$ ,  $<$ , or  $=$ , to make a true statement.

29.)



0.33



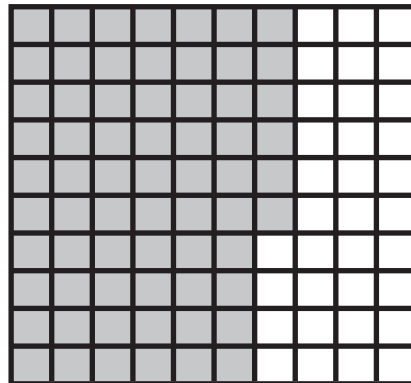
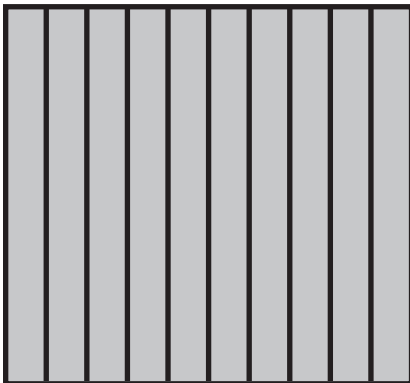
$\frac{3}{10}$

**A** =

**B** <

**C** >

30.)



Which of the following statements is true?

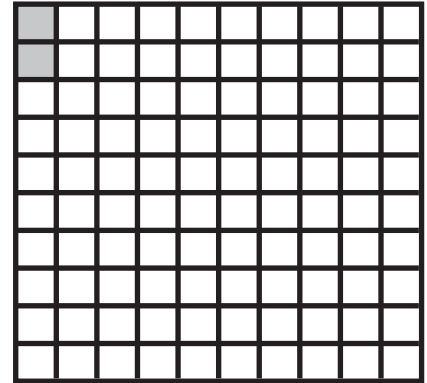
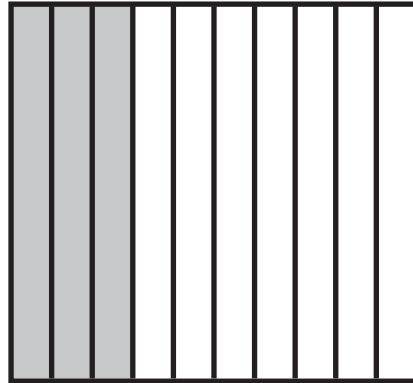
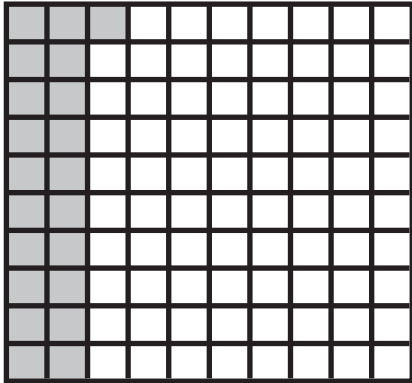
**A**  $1 < 0.66$

**B**  $0.66 > 1$

**C**  $1 = 0.66$

**D**  $1 > 0.66$

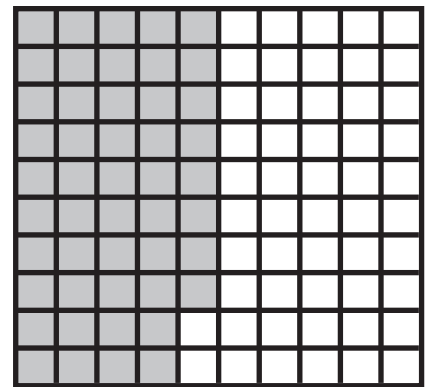
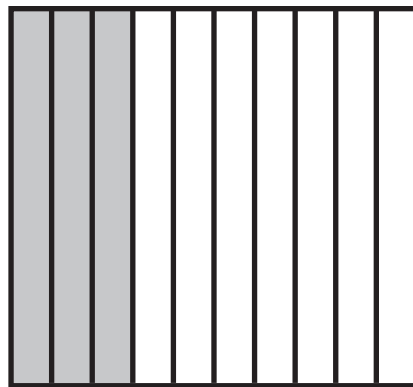
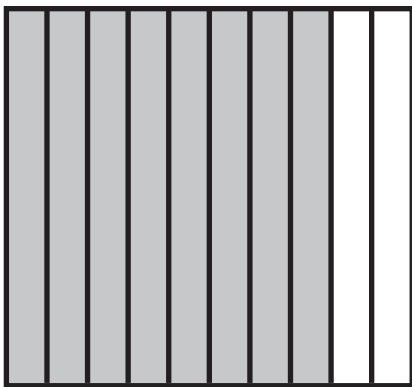
31.) Look at the shaded models.



Which of the following shows the decimals in order from least to greatest?

- A 0.21; 0.3; 0.02
- B 0.3; 0.21; 0.02
- C 0.02; 0.3; 0.21
- D 0.02; 0.21; 0.3

32.) Look at the shaded models.

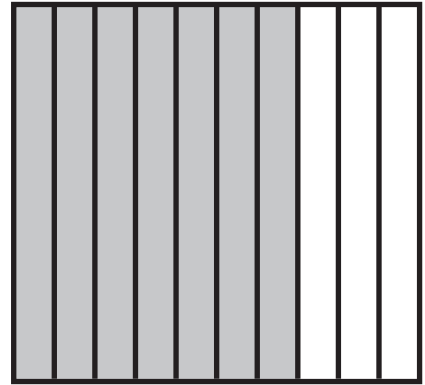
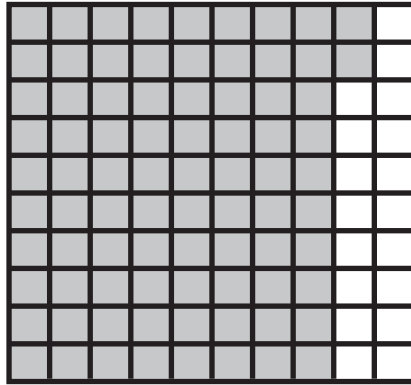
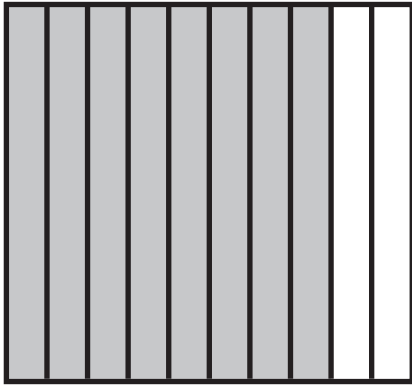


Which of the following shows the decimals in order from least to greatest?

- A 0.3; 0.48; 0.8
- B 0.3; 0.8; 0.48
- C 0.8; 0.3; 0.48
- D 0.48; 0.3; 0.8



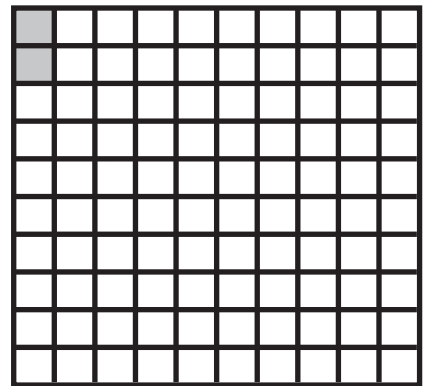
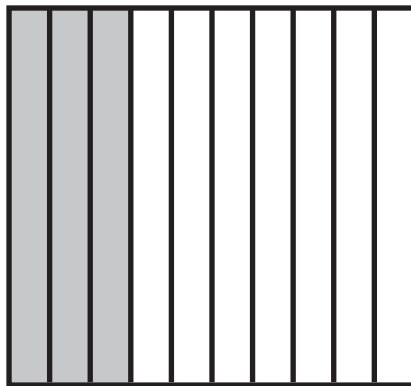
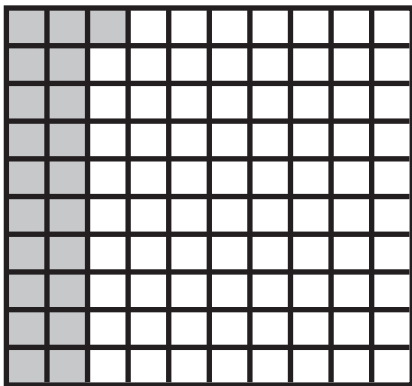
33.) Look at the shaded models.



Which of the following shows the decimals in order from greatest to least?

- A 7; 0.8; 0.82
- B 0.8; 0.7; 0.82
- C 0.82; 0.8; 0.7
- D 0.7; 0.8; 0.82

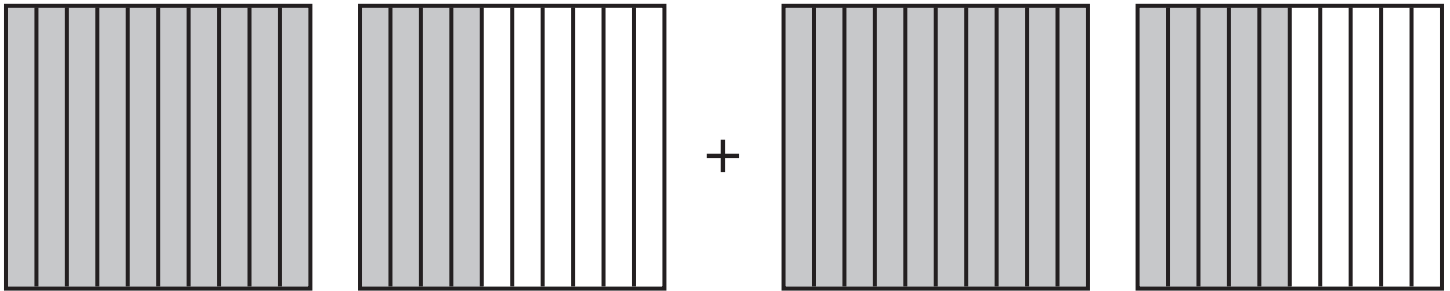
34.) Look at the shaded models.



Which of the following shows the decimals in order from greatest to least?

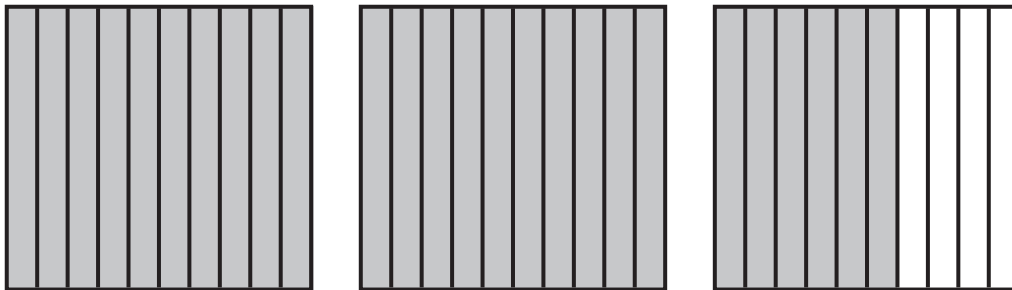
- A 0.21; 0.3; 0.02
- B 0.3; 0.21; 0.02
- C 0.02; 0.3; 0.21
- D 0.02; 0.21; 0.3

35.) Choose the correct solution for the model below.



- A  $1.4 + 1.5 = 2.9$
- B  $1.6 + 1.5 = 3.1$
- C  $0.4 + 0.5 = 2.9$
- D  $14 + 15 = 29$

36.) Corin has 2.6 liters of water in her water bottle.

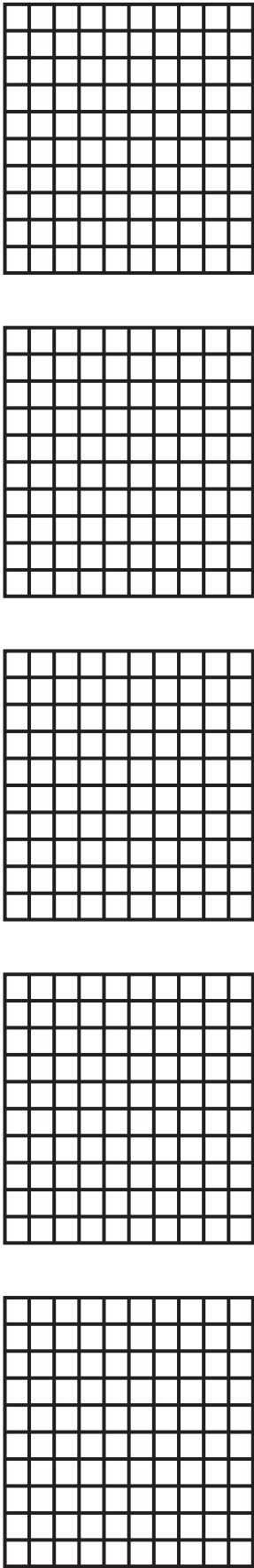


If she drinks 0.4 liter of water after soccer practice, what will be the amount of water remaining in her water bottle?

- A 3 liters
- B 2.2 liters
- C 0.2 liters
- D 1 liter

37.) Mike walked 2.33 meters to work and 1.15 meters to the store. What is the total distance Mike walked?

Use the model to solve. Choose the correct number sentence.



- A  $2.33 + 1.15 = 3.18$
- B  $1.15 - 2.33 = 1.22$
- C  $2.33 - 1.15 = 1.18$
- D  $2.33 + 1.15 = 3.48$

38.) Mason threw a ball 5.73 meters. Nathan threw a ball 7.82 meters. Which number sentence can be used to find how much farther Nathan threw the ball than Mason?

- A  $7.82 - 5.73$
- B  $5.73 + 7.83$
- C  $7 - 5.73$
- D  $7.82 + 5.73$



