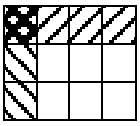
Block 5 Review ~ Multiplying and Dividing Fractions

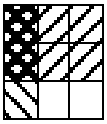
Name_____ Period_____ Date_____

1. Which model matches the expression:

$$\frac{1}{3}\times\frac{1}{2}?$$

A. 

B. 

C. 

D. 

2. Jack drew a model to represent an expression. Which expression matches his model?

A. $\frac{1}{2}\times\frac{1}{3}$

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

C. $\frac{1}{3}\times\frac{3}{12}$

D. $\frac{3}{12}\times\frac{3}{4}$

For numbers 3a – 3c, choose YES or NO to indicate whether each expression has a value of $\frac{1}{4}$.

3a. $\frac{1}{2}\times\frac{5}{10}$ YES NO

3b. $\frac{1}{3}\times\frac{4}{5}$ YES NO

3c. $\frac{5}{8}\times\frac{2}{3}$ YES NO

4. Zane made $\frac{4}{5}$ of his shots on goal during a soccer practice. Cade made $\frac{3}{8}$ of the shots that Zane made. What fraction of shots on goal did Cade make?

A. $\frac{1}{5}$ of his shots

B. $\frac{11}{30}$ of his shots

C. $\frac{3}{10}$ of his shots

D. $\frac{7}{13}$ of his shots

5. What is the value of $\frac{5}{9}\times\frac{2}{5}$?

A. $\frac{2}{9}$

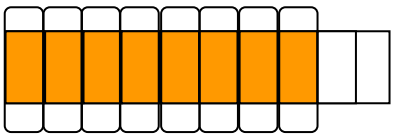
B. $\frac{7}{45}$

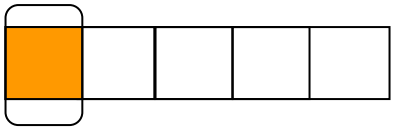
C. $\frac{1}{2}$

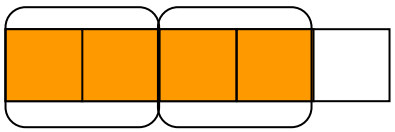
D. $\frac{3}{4}$

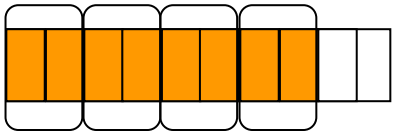
6. Which model matches the expression:

$$\frac{8}{10}\div\frac{1}{5}?$$

A. 

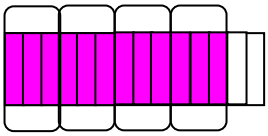
B. 

C. 

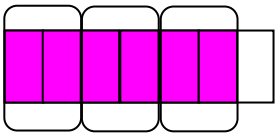
D. 

7. Tom and Tim drew models to represent the expression $\frac{6}{7} \div \frac{3}{14}$. Their models looked different. Which person was correct?

TOM



TIM



A. Tom
B. Tim
C. Neither was correct
D. Both were correct

8. Which expressions below have a value less than $\frac{5}{12}$? Circle all that apply.

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

B. $\frac{5}{8} \div \frac{5}{16}$

C. $\frac{2}{3} \div \frac{1}{2}$

D. $\frac{5}{14} \times \frac{2}{5}$

E. $\frac{4}{5} \times \frac{2}{3}$

F. $\frac{1}{3} \div \frac{12}{13}$

9 What is the value of $\frac{6}{7} \div \frac{4}{9}$?

A. $\frac{8}{21}$

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

C. $1\frac{13}{14}$

D. $1\frac{17}{21}$

10. What is the approximate value of $4\frac{1}{4} \times 7\frac{4}{5}$?

A. ≈ 26
B. ≈ 28
C. ≈ 30
D. ≈ 32

11. Kenny cooks at a restaurant. He has $48\frac{1}{3}$ cubes of butter in his refrigerator. Kenny uses about $7\frac{3}{4}$ cubes of butter each day. Approximately how many days will it be until he needs to get more butter?

A. approximately 6 days
B. approximately 7 days
C. approximately 8 days
D. approximately 9 days

12. What is the value of $\frac{5}{6} \times 22$?

A. $17\frac{2}{3}$
B. $17\frac{5}{6}$
C. $18\frac{1}{6}$
D. $18\frac{1}{3}$

13. Victoria uses $\frac{3}{16}$ cup of flavored syrup to make an Italian soda. She has 2 cups of flavored syrup left. How many Italian sodas can she make?

A. $9\frac{3}{8}$ Italian sodas
B. $10\frac{2}{3}$ Italian sodas
C. $11\frac{1}{4}$ Italian sodas
D. $12\frac{1}{2}$ Italian sodas

14. What is the value of $4 \div \frac{3}{4}$?

A. 3
B. $3\frac{1}{4}$
C. 4
D. $5\frac{1}{3}$

Kayla cleaned 12 houses this week. Use this information to determine whether each statement in numbers 15a – 15c is TRUE or FALSE.

15a. When she cleaned $\frac{2}{5}$ of the houses, $4\frac{4}{5}$ of the houses were clean. TRUE FALSE

15b. When she cleaned $\frac{1}{3}$ of the houses, 3 of the houses were clean. TRUE FALSE

15c. When she cleaned $\frac{3}{4}$ of the houses, 9 of the houses were clean. TRUE FALSE

16. What is the value of $2\frac{1}{8} \times 4\frac{3}{4}$?

A. $8\frac{3}{32}$
B. $8\frac{5}{16}$
C. $10\frac{3}{32}$
D. $10\frac{5}{16}$

17. What is the value of $5\frac{1}{3} \div 2\frac{1}{2}$?

A. $2\frac{2}{15}$
B. $2\frac{1}{6}$
C. $3\frac{2}{5}$
D. $3\frac{2}{3}$