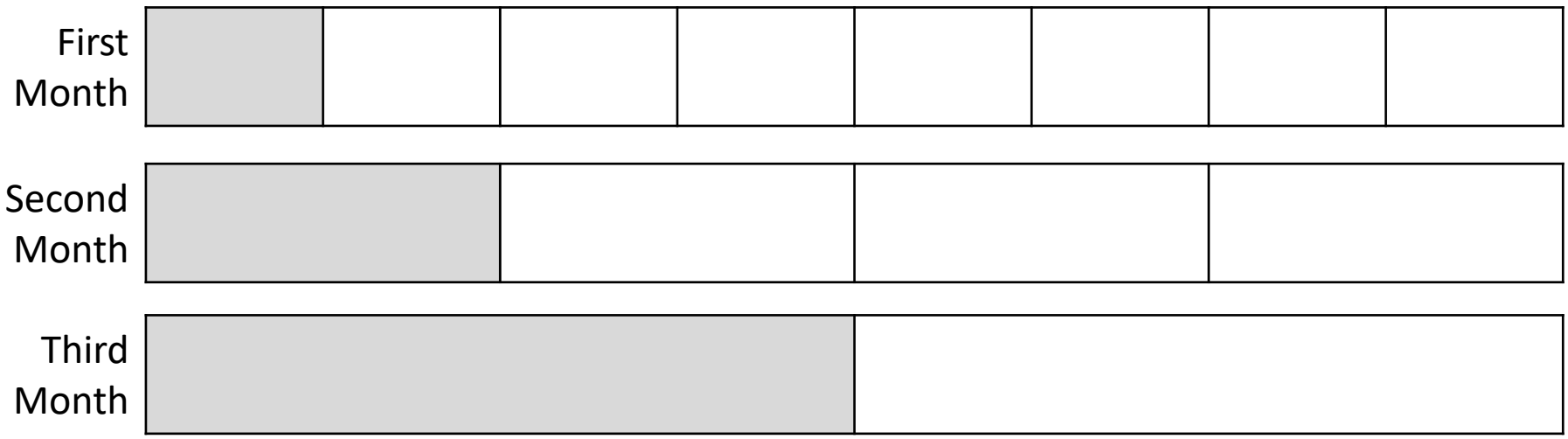
Unit: 5th – Fractions: Adding & Subtracting
Lesson: 5.3.H - Use Models and Pictures to Add & Subtract Fractions with Unequal Denominators
Problem Set 1

1 B. $\frac{7}{8}$	**2** A. $\frac{11}{12}$	**3** C. $1\frac{1}{8}$ pizza	**4** B. $1\frac{1}{10}$ cans	**5** D. $\frac{11}{15} - \frac{2}{5}$	**6** B. $\frac{7}{12}$
7 A. $\frac{4}{5} - \frac{1}{6}$	**8** A. $\frac{5}{6} - \frac{3}{8}$	**9** A. $\frac{7}{12}$	**10** D. $\frac{5}{6}$	**11** D. $1\frac{1}{6}$ pizzas	**12** D. $1\frac{1}{8}$
13 $\frac{11}{15} - \frac{3}{5}$	**14** A. $\frac{1}{8}$	**15** D. $\frac{7}{20}$	**16** D. $\frac{11}{16} - \frac{2}{8} = \frac{7}{16}$	**17** D. $\frac{8}{8}$ (All of it)	**18** B. $\frac{9}{10}$
19 C. $\frac{5}{12}$ cheesecake	**20** C. $\frac{7}{8}$	**21** A. $1\frac{7}{12}$ pans	**22** A. $\frac{14}{18} - \frac{2}{6}$	**23** B. $\frac{1}{6}$	**24** B. $\frac{5}{12}$
25 B. $\frac{11}{24}$	**26** D. $\frac{7}{8}$	**27** A. $1\frac{5}{8}$ pies	**28** C. $\frac{10}{18} - \frac{1}{6}$	**29** C. $\frac{1}{12}$	**30** D. $\frac{4}{15}$

1. Mrs. Ali collected notebook paper from her students at the beginning of the year. The model is shaded to show the fraction of this notebook paper that Mrs. Ali used in each of the three months.



What fraction of the notebook paper Mrs. Ali collected was used during these three months?

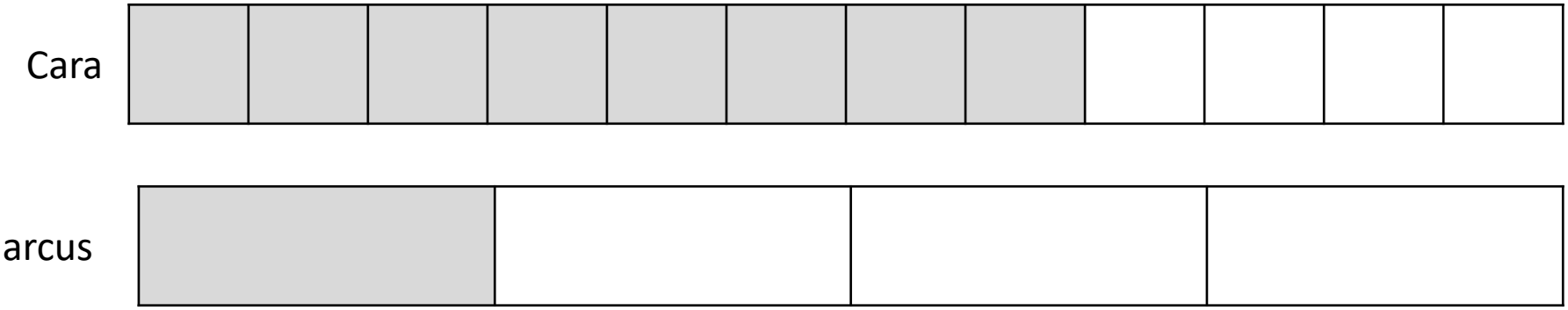
A. $\frac{3}{8}$

C. $\frac{3}{14}$

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

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

2. Cara and Marcus shared a candy bar. The models are shaded to show the fraction of the candy bar each of them ate.



What fraction of the candy bar did Cara and Marcus eat altogether?

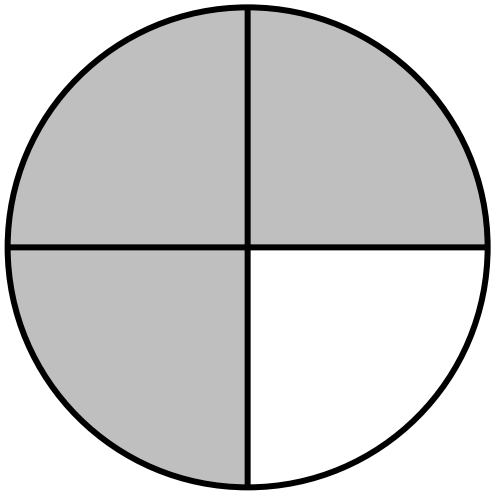
A. $\frac{11}{12}$

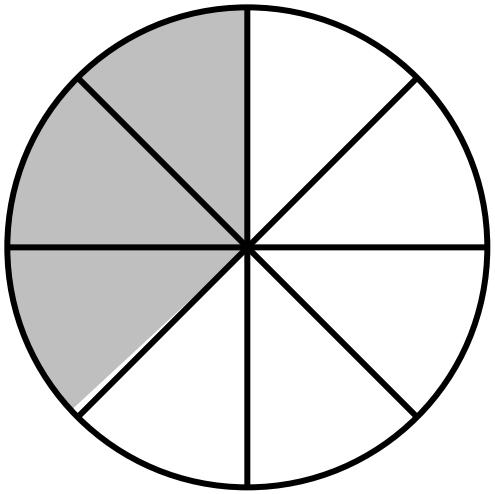
C. $\frac{1}{12}$

B. $\frac{9}{16}$

D. $\frac{9}{24}$

3. Megan cooked pizza for dinner. She sliced one pizza into 4 slices and one pizza into 8 slices. The shaded portion shows the part of the pizza that the family ate for dinner.





How much pizza did the family eat?

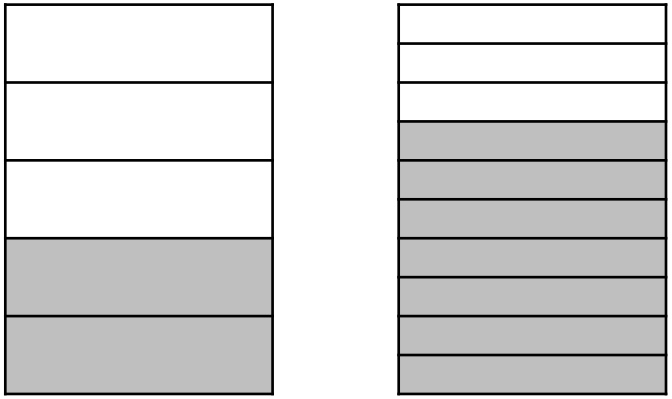
A. $1\frac{3}{8}$ pizza

C. $1\frac{1}{8}$ pizza

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

D. $\frac{7}{8}$ pizza

4. Juana has two cans of leftover paint. The shaded parts of the models show how much paint is left in each can.



Can 1 Can 2

How many cans of paint does Juana have altogether?

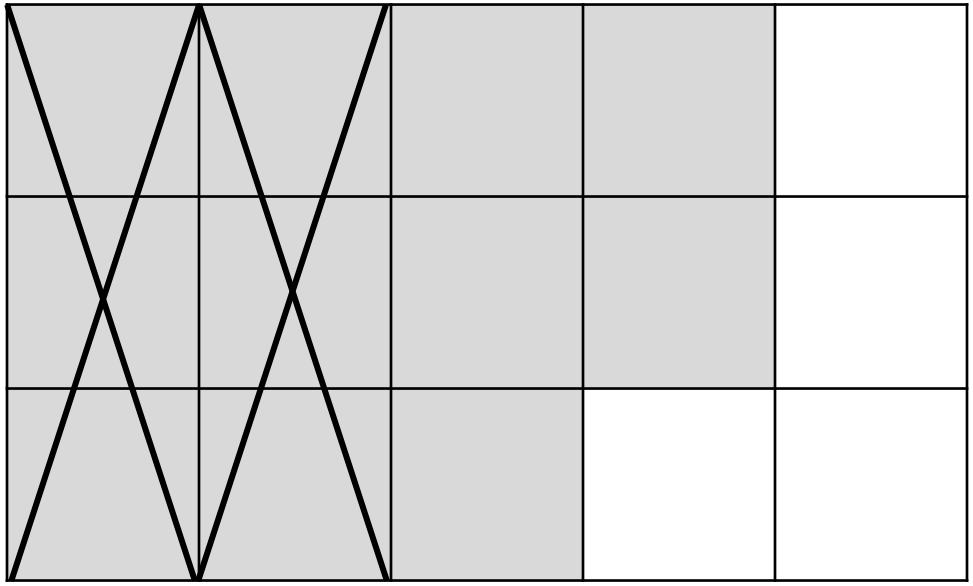
A. $\frac{9}{10}$ of a can

B. $1\frac{1}{10}$ cans

C. $1\frac{1}{5}$ cans

D. $1\frac{4}{5}$ cans

5. The shaded part of the model represents a fraction. Another fraction was subtracted from the first fraction.



Which expression does the model represent?

A. $\frac{11}{15} - \frac{1}{6}$

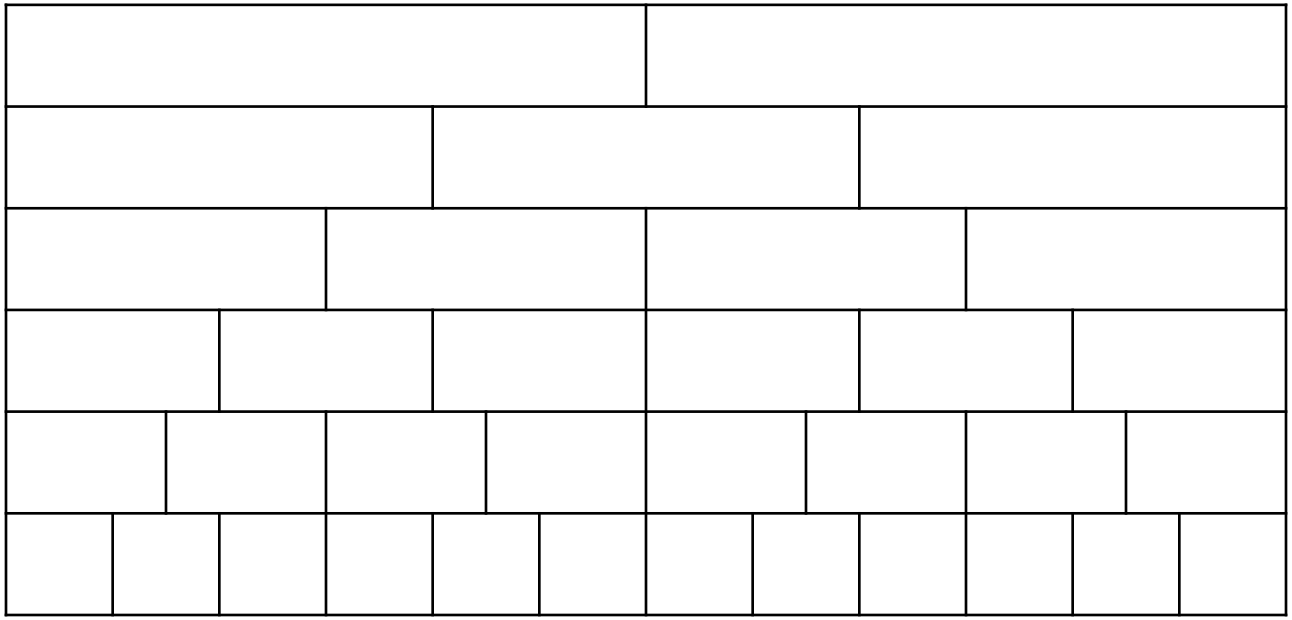
C. $\frac{6}{15} - \frac{4}{15}$

B. $\frac{11}{12} - \frac{6}{12}$

D. $\frac{11}{15} - \frac{2}{5}$

6. Vanna used the fraction strips shown to help her determine the difference between $\frac{5}{6}$ and $\frac{1}{4}$.

Fraction Strips



What is $\frac{5}{6} - \frac{1}{4}$?

A. $\frac{1}{5}$

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

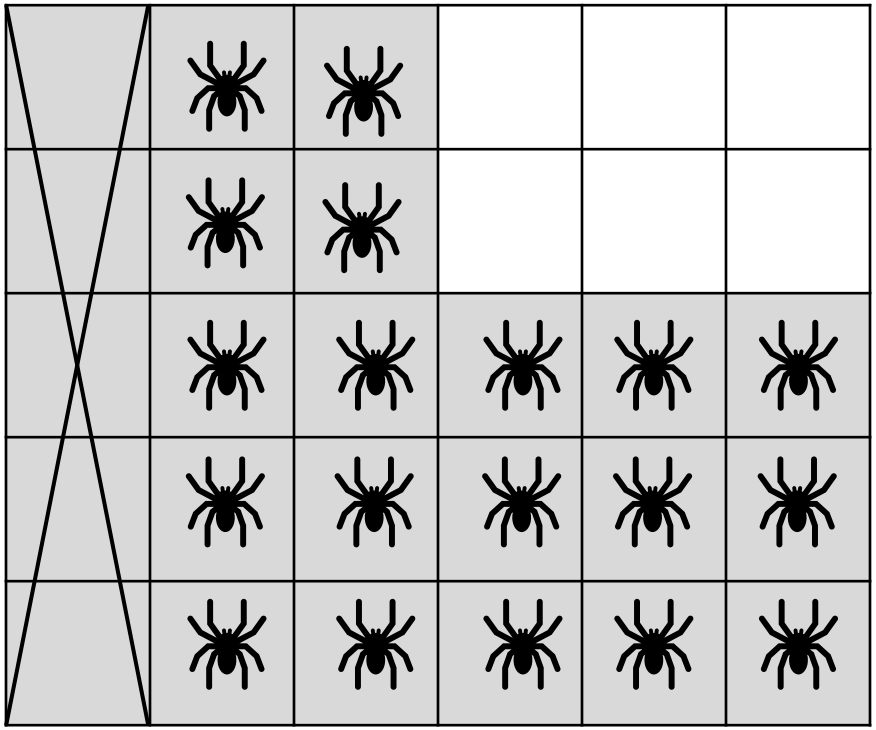
B. $\frac{7}{12}$

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

Unit: 5th – Fractions: Adding & Subtracting
Lesson: 5.3.H - Use Models and Pictures to Add & Subtract Fractions with Unequal Denominators
Problem Set 2

1 B. $\frac{7}{8}$	**2** A. $\frac{11}{12}$	**3** C. $1\frac{1}{8}$ pizza	**4** B. $1\frac{1}{10}$ cans	**5** D. $\frac{11}{15} - \frac{2}{5}$	**6** B. $\frac{7}{12}$
7 A. $\frac{4}{5} - \frac{1}{6}$	**8** A. $\frac{5}{6} - \frac{3}{8}$	**9** A. $\frac{7}{12}$	**10** D. $\frac{5}{6}$	**11** D. $1\frac{1}{6}$ pizzas	**12** D. $1\frac{1}{8}$
13 $\frac{11}{15} - \frac{3}{5}$	**14** A. $\frac{1}{8}$	**15** D. $\frac{7}{20}$	**16** D. $\frac{11}{16} - \frac{2}{8} = \frac{7}{16}$	**17** D. $\frac{8}{8}$ (All of it)	**18** B. $\frac{9}{10}$
19 C. $\frac{5}{12}$ cheesecake	**20** C. $\frac{7}{8}$	**21** A. $1\frac{7}{12}$ pans	**22** A. $\frac{14}{18} - \frac{2}{6}$	**23** B. $\frac{1}{6}$	**24** B. $\frac{5}{12}$
25 B. $\frac{11}{24}$	**26** D. $\frac{7}{8}$	**27** A. $1\frac{5}{8}$ pies	**28** C. $\frac{10}{18} - \frac{1}{6}$	**29** C. $\frac{1}{12}$	**30** D. $\frac{4}{15}$

7. Wanda the Witch has a tray of spiders she is trying to sell. She sold $\frac{1}{5}$ of the tray of spiders yesterday. The shaded part of the model shows the fraction of the tray she had left to sell today. The Marked-out area shows the spiders she sold today. Which expression can Wanda use to find what fraction of the tray of spiders she has left to sell tomorrow?



A. $\frac{4}{5} - \frac{1}{6}$

C. $\frac{4}{5} - \frac{1}{5}$

B. $\frac{4}{6} - \frac{1}{6}$

D. $\frac{4}{30} - \frac{1}{30}$

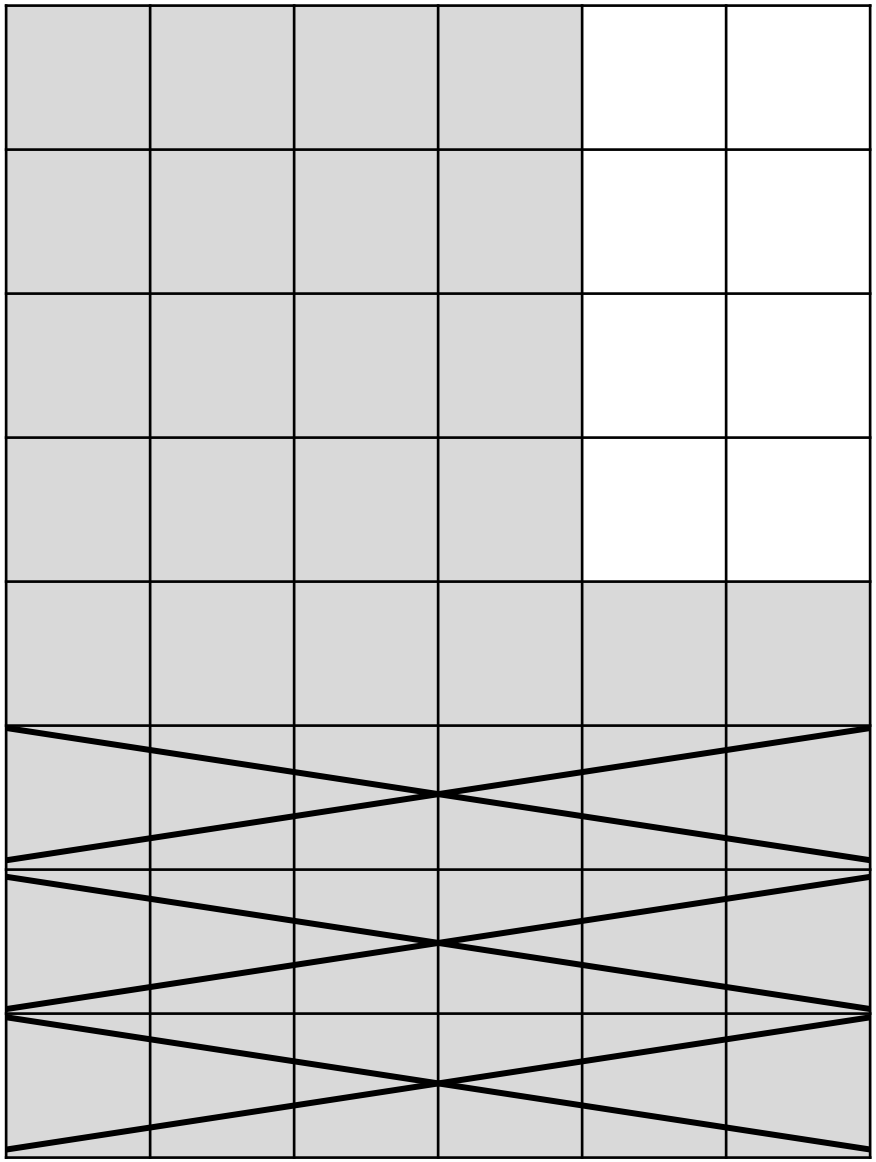
8. Murray is responsible for water for the soccer team. He bought all the water he thought he would need for the first 5 games at the beginning of the month. The shaded part of the model shows the fraction of the water Murray had left after the first game. The marked-out part of the model shows the fraction of the remaining water that the team used during the second game. What expression can Murray use to figure out the fraction of his water he has left for the rest of the games?

A. $\frac{5}{6} - \frac{3}{8}$

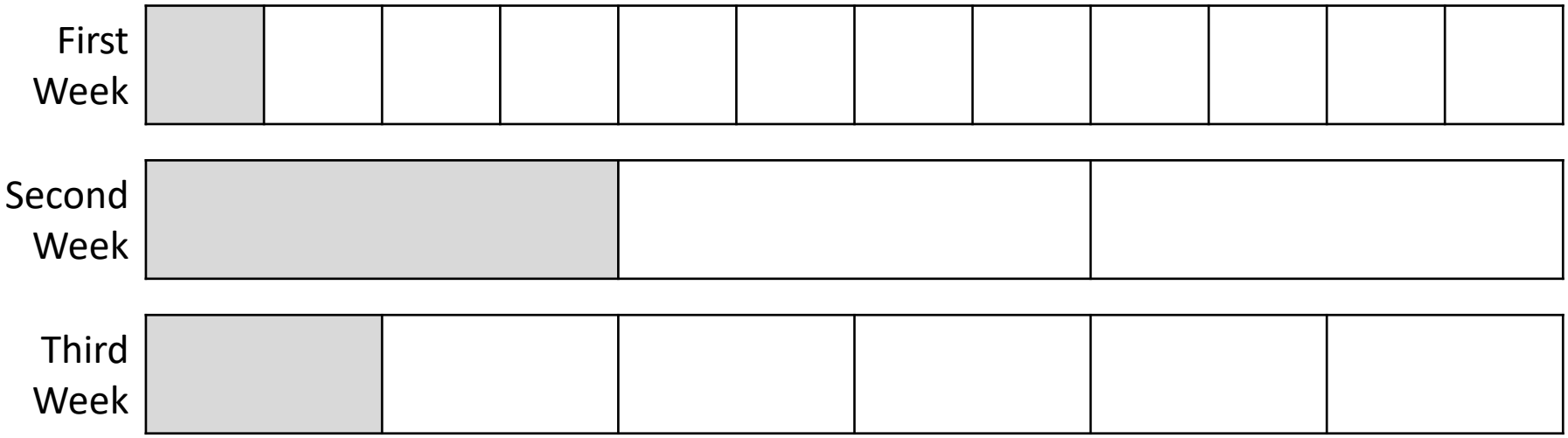
C. $\frac{3}{8} - \frac{5}{6}$

B. $\frac{11}{24} - \frac{4}{8}$

D. $\frac{3}{4} - \frac{1}{6}$



9. Malcom is a house painter. He bought all the paint he thought he needed for the month all at one time. The model is shaded to show the fraction of his paint he used in each of the first three weeks of the month.



What fraction of the paint Malcom bought for the month has he used during the first three weeks?

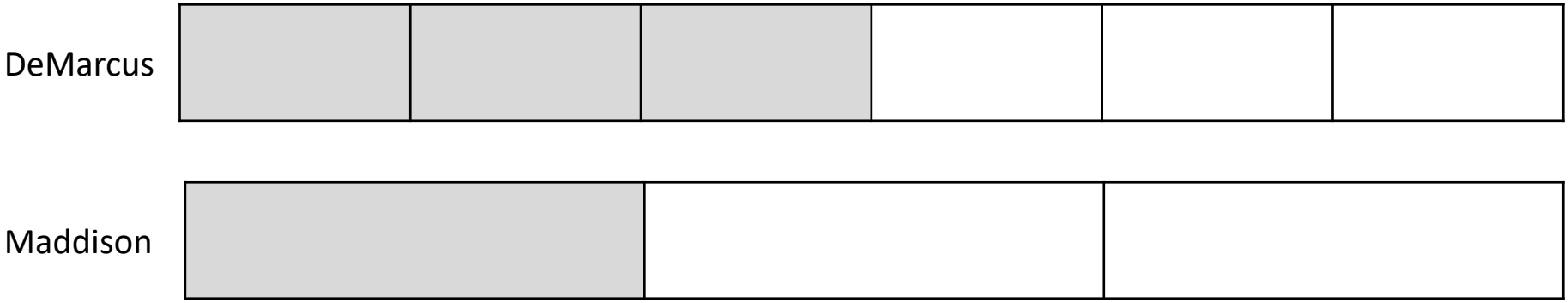
A. $\frac{7}{12}$

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

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

D. $\frac{1}{12}$

10. DeMarcus and Maddison each ate part of a box of cookies. The models are shaded to show the fraction of the box of cookies that each of them ate.



What fraction of the box of cookies did DeMarcus and Maddison eat altogether?

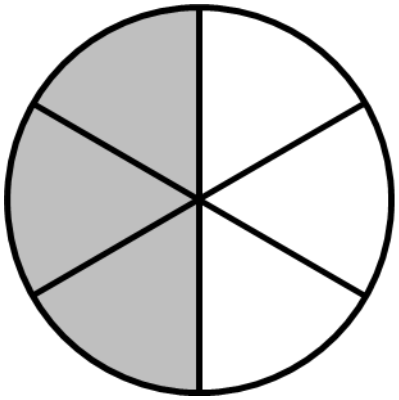
A. $\frac{2}{3}$

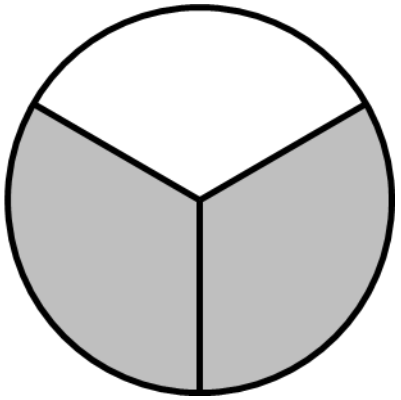
C. $\frac{4}{6}$

B. $\frac{3}{5}$

D. $\frac{5}{6}$

11. Stinky Stan ordered two sardine and garlic pizzas for his family to eat while they were watching the Super Bowl. He sliced one pizza into 3 big slices and one into 6 slices. The models show how much of each pizza his family ate during the super bowl.





How much pizza did his family eat?

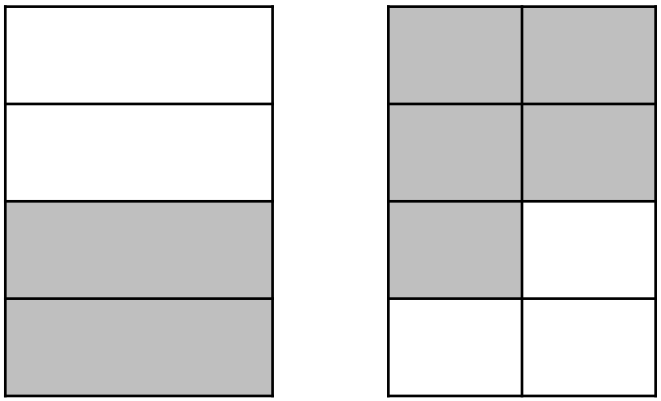
A. $1\frac{2}{3}$ pizzas

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

C. $\frac{5}{6}$ pizza

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

12. Jocelyn made two loaves of banana bread. She cut one loaf into 4 pieces and one loaf into 8 pieces. The shaded areas of the model show how much of the banana bread has already been eaten.



How much of the banana bread has been eaten altogether?

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

C. $1\frac{7}{8}$

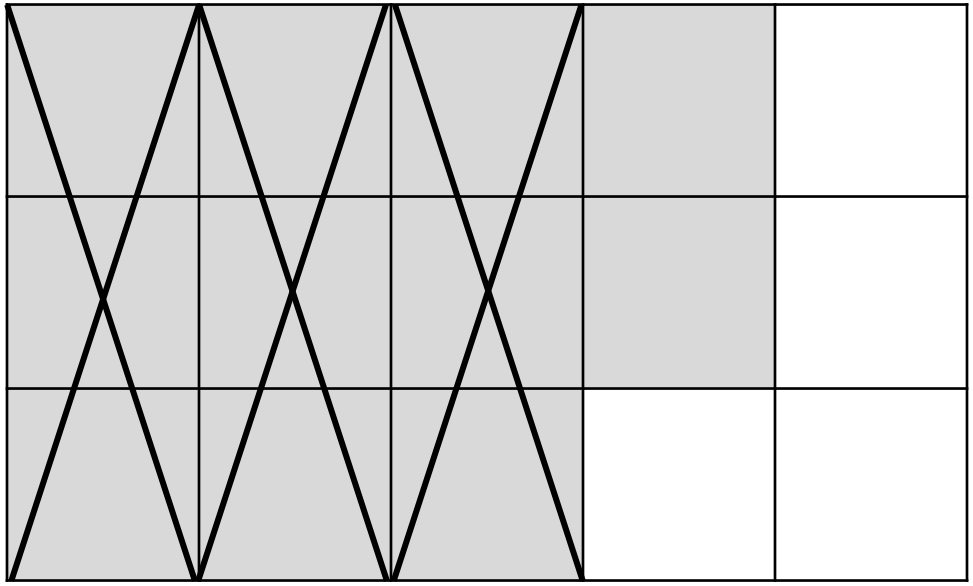
B. $1\frac{1}{10}$

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

Unit: 5th – Fractions: Adding & Subtracting
Lesson: 5.3.H - Use Models and Pictures to Add & Subtract Fractions with Unequal Denominators
Problem Set 3

1 B. $\frac{7}{8}$	**2** A. $\frac{11}{12}$	**3** C. $1\frac{1}{8}$ pizza	**4** B. $1\frac{1}{10}$ cans	**5** D. $\frac{11}{15} - \frac{2}{5}$	**6** B. $\frac{7}{12}$
7 A. $\frac{4}{5} - \frac{1}{6}$	**8** A. $\frac{5}{6} - \frac{3}{8}$	**9** A. $\frac{7}{12}$	**10** D. $\frac{5}{6}$	**11** D. $1\frac{1}{6}$ pizzas	**12** D. $1\frac{1}{8}$
13 $\frac{11}{15} - \frac{3}{5}$	**14** A. $\frac{1}{8}$	**15** D. $\frac{7}{20}$	**16** D. $\frac{11}{16} - \frac{2}{8} = \frac{7}{16}$	**17** D. $\frac{8}{8}$ (All of it)	**18** B. $\frac{9}{10}$
19 C. $\frac{5}{12}$ cheesecake	**20** C. $\frac{7}{8}$	**21** A. $1\frac{7}{12}$ pans	**22** A. $\frac{14}{18} - \frac{2}{6}$	**23** B. $\frac{1}{6}$	**24** B. $\frac{5}{12}$
25 B. $\frac{11}{24}$	**26** D. $\frac{7}{8}$	**27** A. $1\frac{5}{8}$ pies	**28** C. $\frac{10}{18} - \frac{1}{6}$	**29** C. $\frac{1}{12}$	**30** D. $\frac{4}{15}$

13. The shaded part of the model represents a fraction. Another fraction was subtracted from the first fraction.



Which expression does the model represent?

A. $\frac{11}{15} - \frac{1}{6}$

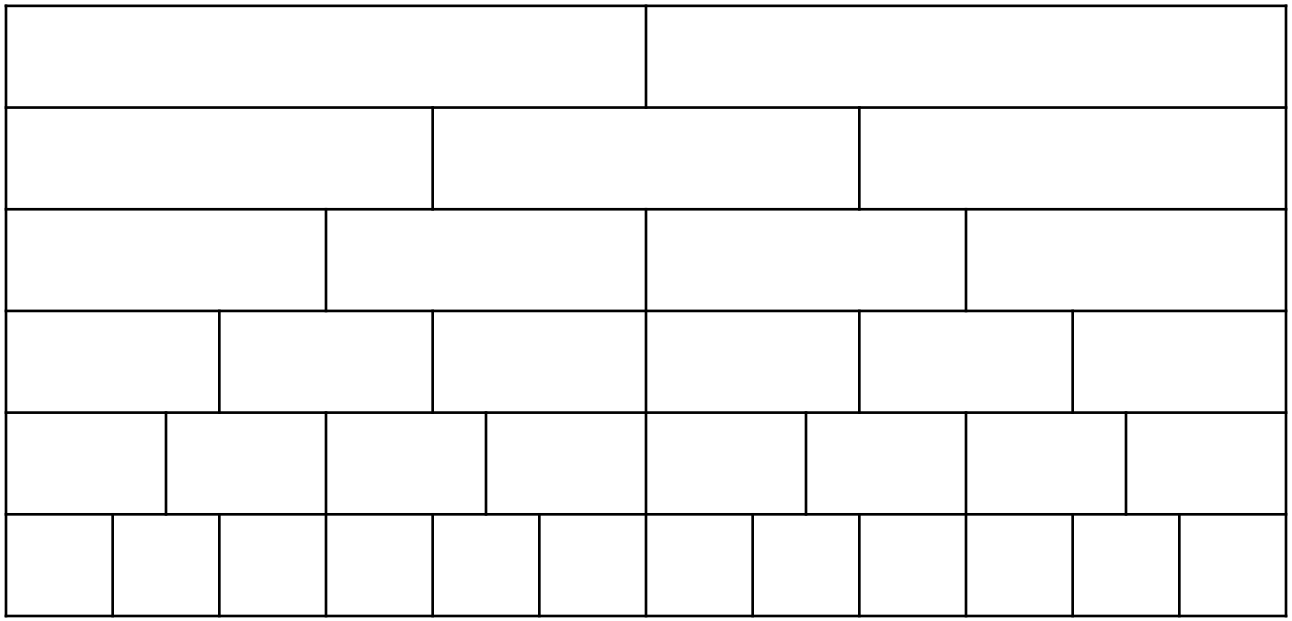
C. $\frac{6}{15} - \frac{4}{15}$

B. $\frac{11}{12} - \frac{6}{12}$

D. $\frac{11}{15} - \frac{3}{5}$

14. Vincent used the fraction strips shown to help her determine the difference between $\frac{7}{8}$ and $\frac{3}{4}$.

Fraction Strips



What is $\frac{7}{8} - \frac{3}{4}$?

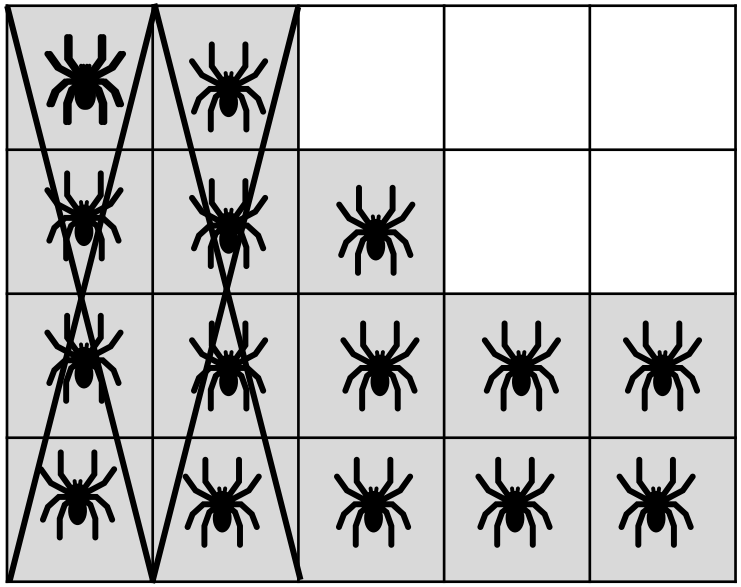
A. $\frac{1}{8}$

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

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

D. $\frac{3}{8}$

15. When Wanda the Witch opened the Witch Supply store this morning, she had sold $\frac{1}{4}$ of a tray of spiders. The shaded part of the model shows the spiders she had left this morning. Today she sold $\frac{2}{5}$ of the tray. What fraction of the tray of spiders has Wanda sold altogether?



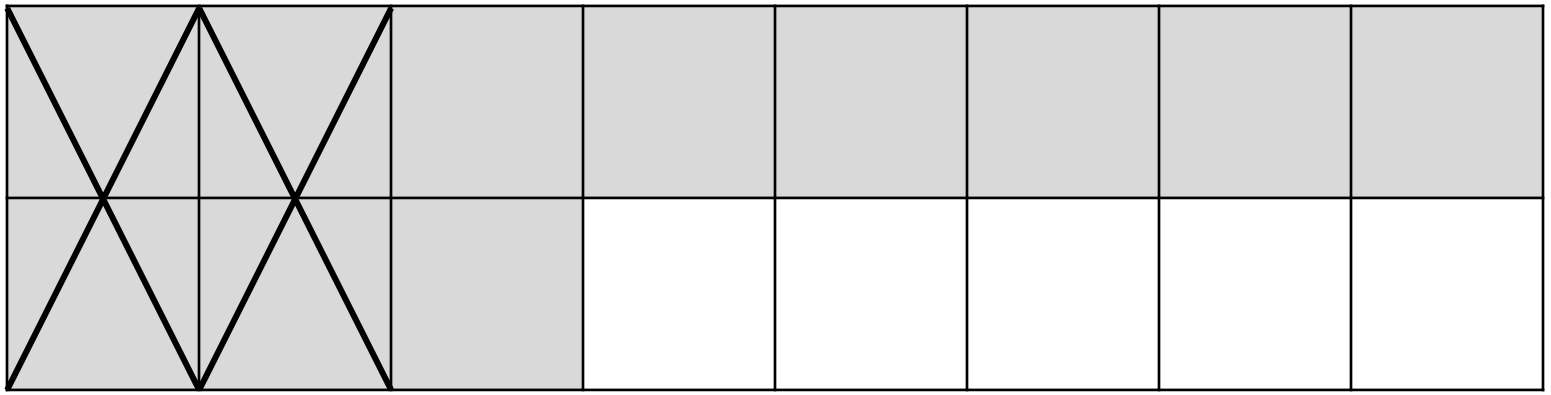
A. $\frac{8}{20}$

C. $\frac{5}{20}$

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

D. $\frac{7}{20}$

16. The shaded part of the model represents a fraction. Another fraction was subtracted from the first fraction. What fraction is left?



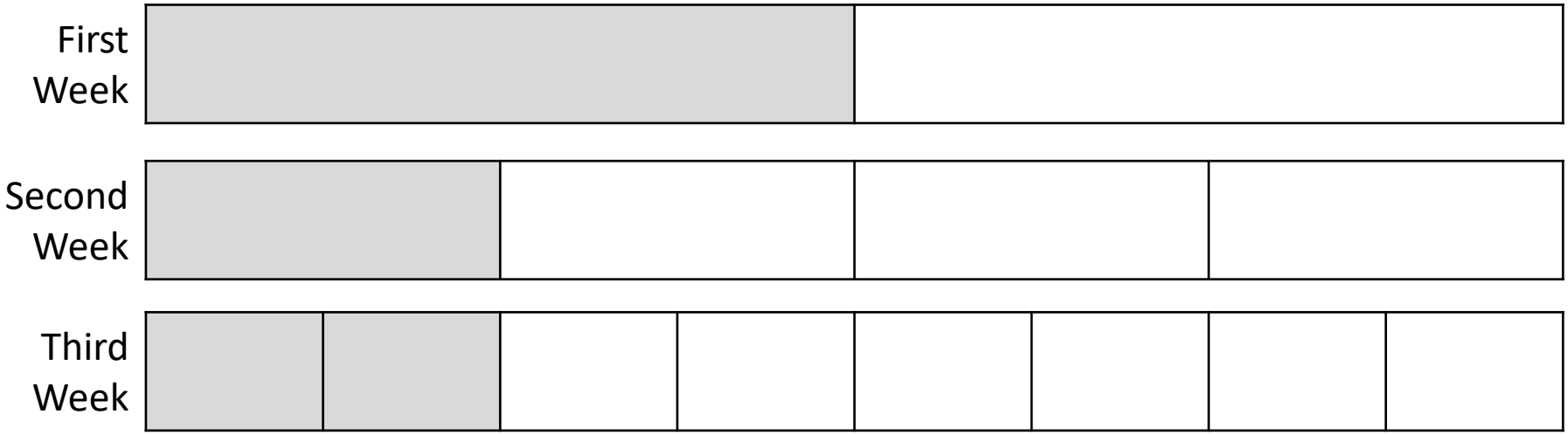
A. $\frac{14}{16} - \frac{2}{8} = \frac{9}{16}$

C. $\frac{11}{16} - \frac{2}{8} = \frac{9}{16}$

B. $\frac{14}{16} - \frac{2}{8} = \frac{10}{16}$

D. $\frac{11}{16} - \frac{2}{8} = \frac{7}{16}$

17. Marjorie got paid at the beginning of the month. The model is shaded to show the fraction of her pay that Marjorie spent in each of the three first weeks of the month.



What fraction of her monthly pay has Marjorie used during the first three weeks of the month?

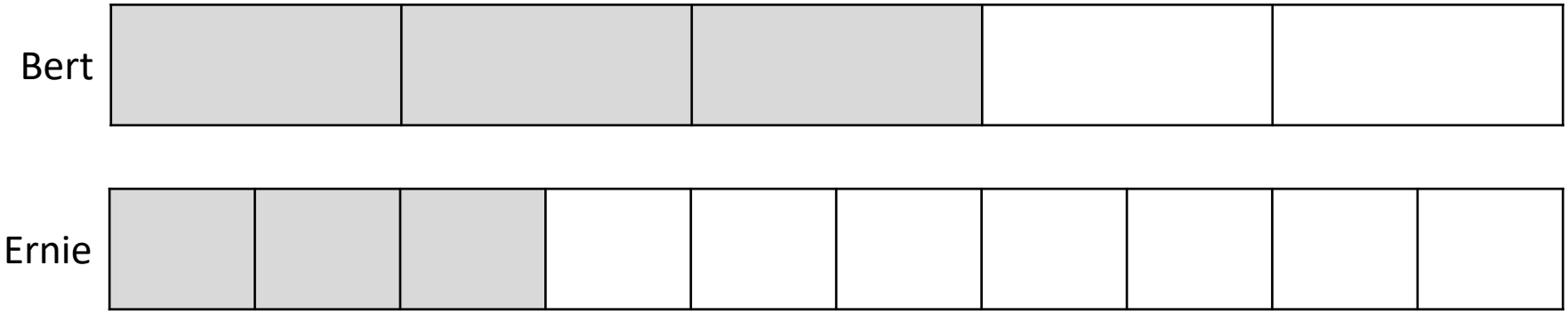
A. $\frac{3}{8}$

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

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

D. $\frac{8}{8}$ (All of it)

18. Bert and Ernie are driving to see their mom. The models show the fraction of the way that each of them has driven so far.



What fraction of the total distance to their mother's house have Bert and Ernie traveled so far?

A. $\frac{6}{10}$

C. $\frac{6}{5}$

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

D. $\frac{8}{10}$

Unit: 5th – Fractions: Adding & Subtracting
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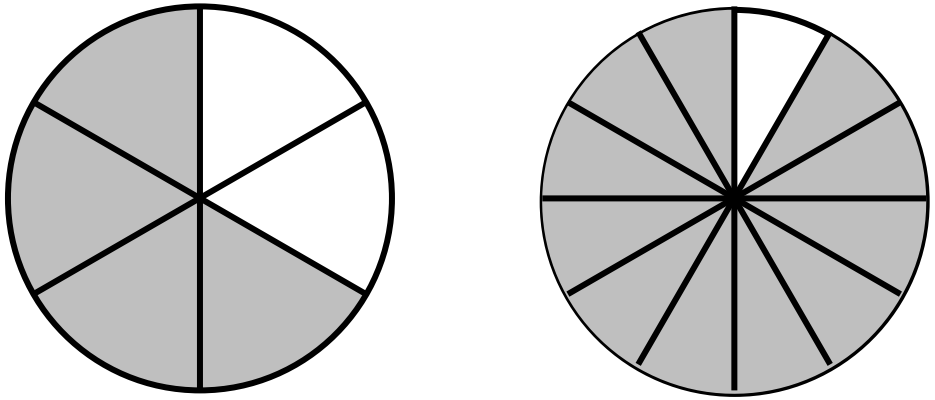
Problem Set 4

1 B. $\frac{7}{8}$	**2** A. $\frac{11}{12}$	**3** C. $1\frac{1}{8}$ pizza	**4** B. $1\frac{1}{10}$ cans	**5** D. $\frac{11}{15} - \frac{2}{5}$	**6** B. $\frac{7}{12}$
7 A. $\frac{4}{5} - \frac{1}{6}$	**8** A. $\frac{5}{6} - \frac{3}{8}$	**9** A. $\frac{7}{12}$	**10** D. $\frac{5}{6}$	**11** D. $1\frac{1}{6}$ pizzas	**12** D. $1\frac{1}{8}$
13 $\frac{11}{15} - \frac{3}{5}$	**14** A. $\frac{1}{8}$	**15** D. $\frac{7}{20}$	**16** D. $\frac{11}{16} - \frac{2}{8} = \frac{7}{16}$	**17** D. $\frac{8}{8}$ (All of it)	**18** B. $\frac{9}{10}$
19 C. $\frac{5}{12}$ cheesecake	**20** C. $\frac{7}{8}$	**21** A. $1\frac{7}{12}$ pans	**22** A. $\frac{14}{18} - \frac{2}{6}$	**23** B. $\frac{1}{6}$	**24** B. $\frac{5}{12}$
25 B. $\frac{11}{24}$	**26** D. $\frac{7}{8}$	**27** A. $1\frac{5}{8}$ pies	**28** C. $\frac{10}{18} - \frac{1}{6}$	**29** C. $\frac{1}{12}$	**30** D. $\frac{4}{15}$

19. Disgusting Donald made two of his famous green moldy cheesecakes for a banquet of the Disgusting Diners' Club. He cut one cheesecake into six slices and one into 12 slices. The white part of the model shows how much of each cheesecake was eaten.



How much cheesecake did the disgusting diners eat altogether?

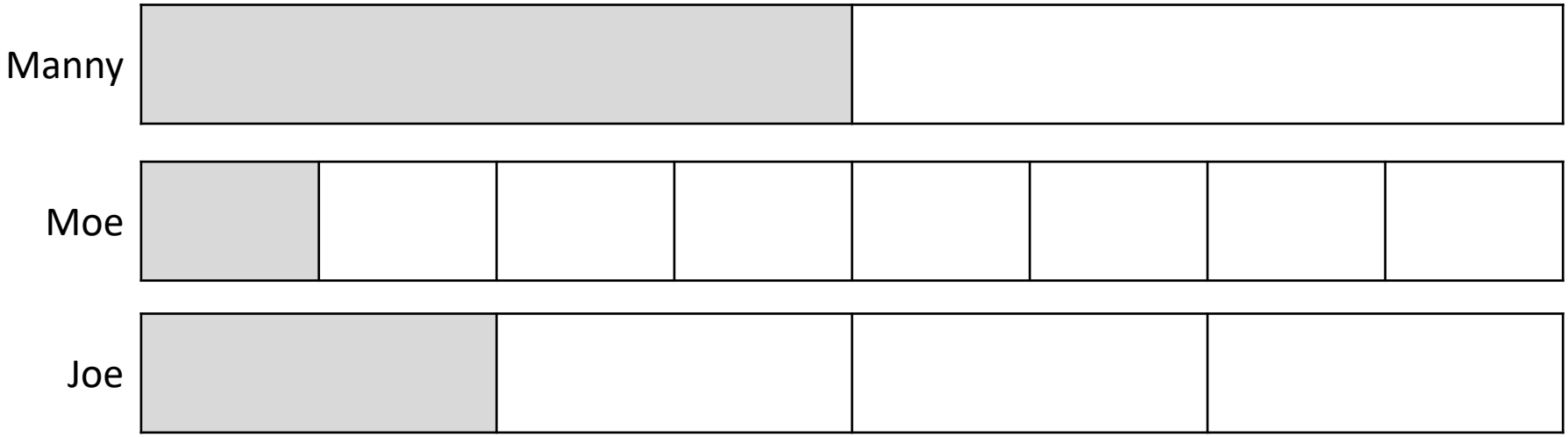
A. $\frac{3}{12}$ cheesecake

C. $\frac{5}{12}$ cheesecake

B. $\frac{3}{6}$ cheesecake

D. $\frac{5}{6}$ cheesecake

20. Mrs. Thompson bought sandwich meat for her 3 sons to use for their lunches this week. The model is shaded to show the fraction of the lunch meat that each son has eaten so far.



What fraction of the lunch meat have the three boys eaten all together?

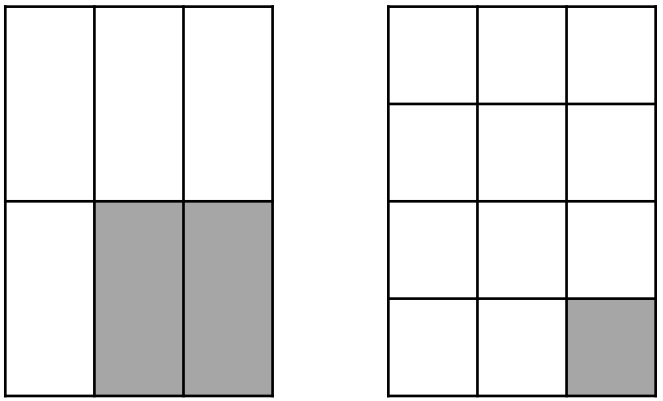
A. $\frac{3}{8}$

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

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

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

21. Marcus made two pans of brownies for a bake sale. He cut one pan into 6 pieces and one pan into 12 pieces. The white areas on the model show how many of the brownies from each pan were sold, the shaded areas show the brownies that are left.



How many pans of brownies were sold altogether?

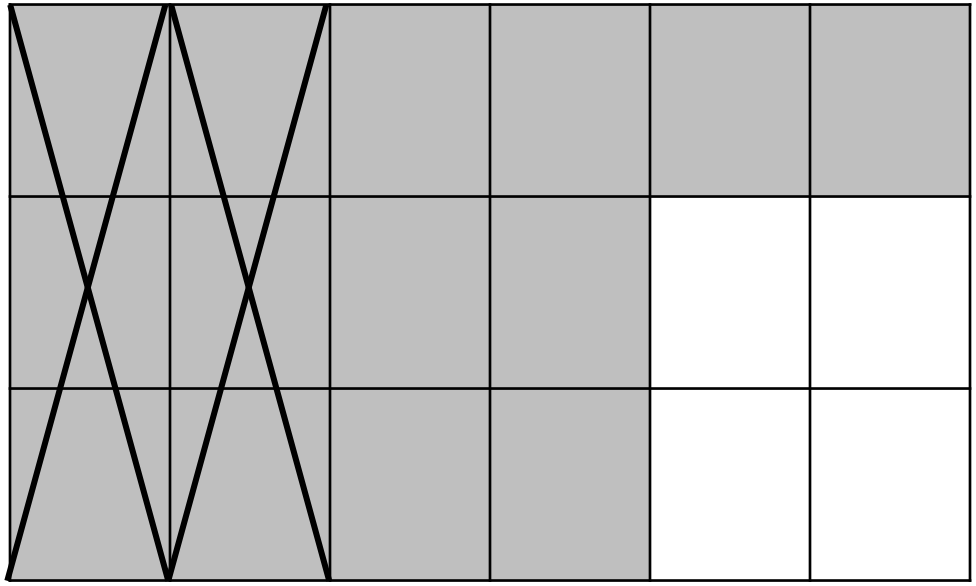
A. $1\frac{7}{12}$ pans

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

B. $3\frac{3}{6}$ pans

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

22. The shaded part of the model represents a fraction. Another fraction was subtracted from the first fraction.



Which expression does the model represent?

A. $\frac{14}{18} - \frac{2}{6}$

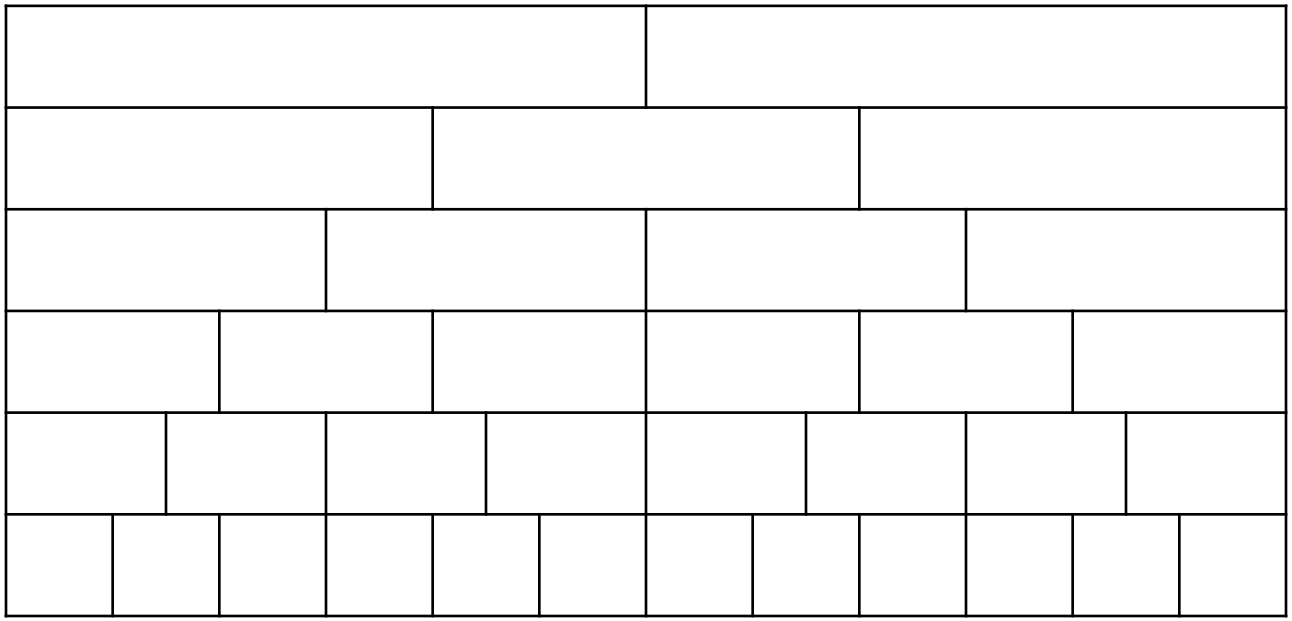
C. $\frac{4}{18} - \frac{2}{6}$

B. $\frac{14}{18} - \frac{6}{6}$

D. $\frac{8}{18} - \frac{6}{18}$

23. Veronica used the fraction strips shown to help her determine the difference between $\frac{2}{3}$ and $\frac{1}{2}$.

Fraction Strips



What is $\frac{2}{3} - \frac{1}{2}$?

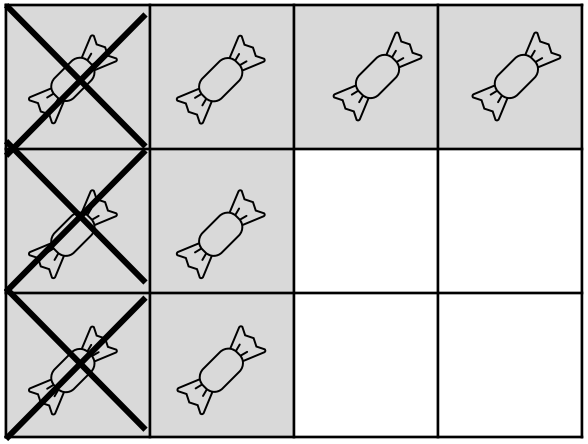
A. $\frac{1}{3}$

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

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

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

24. Carlotta the Cavity Queen found $\frac{2}{3}$ of a box of candy in her desk drawer. She immediately ate $\frac{1}{4}$ of the box. The shaded part of the model shows the candy Carlotta found. The marked-out part shows the candy she ate.



Carlotta can use the expression $\frac{2}{3} - \frac{1}{4}$ to find out what fraction of the box of candy she has left. What is $\frac{2}{3} - \frac{1}{4}$?

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

C. $\frac{3}{5}$

B. $\frac{5}{12}$

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

Unit: 5th – Fractions: Adding & Subtracting
Lesson: 5.3.H - Use Models and Pictures to Add & Subtract Fractions with Unequal Denominators
Problem Set 5

1 B. $\frac{7}{8}$	**2** A. $\frac{11}{12}$	**3** C. $1\frac{1}{8}$ pizza	**4** B. $1\frac{1}{10}$ cans	**5** D. $\frac{11}{15} - \frac{2}{5}$	**6** B. $\frac{7}{12}$
7 A. $\frac{4}{5} - \frac{1}{6}$	**8** A. $\frac{5}{6} - \frac{3}{8}$	**9** A. $\frac{7}{12}$	**10** D. $\frac{5}{6}$	**11** D. $1\frac{1}{6}$ pizzas	**12** D. $1\frac{1}{8}$
13 $\frac{11}{15} - \frac{3}{5}$	**14** A. $\frac{1}{8}$	**15** D. $\frac{7}{20}$	**16** D. $\frac{11}{16} - \frac{2}{8} = \frac{7}{16}$	**17** D. $\frac{8}{8}$ (All of it)	**18** B. $\frac{9}{10}$
19 C. $\frac{5}{12}$ cheesecake	**20** C. $\frac{7}{8}$	**21** A. $1\frac{7}{12}$ pans	**22** A. $\frac{14}{18} - \frac{2}{6}$	**23** B. $\frac{1}{6}$	**24** B. $\frac{5}{12}$
25 B. $\frac{11}{24}$	**26** D. $\frac{7}{8}$	**27** A. $1\frac{5}{8}$ pies	**28** C. $\frac{10}{18} - \frac{1}{6}$	**29** C. $\frac{1}{12}$	**30** D. $\frac{4}{15}$

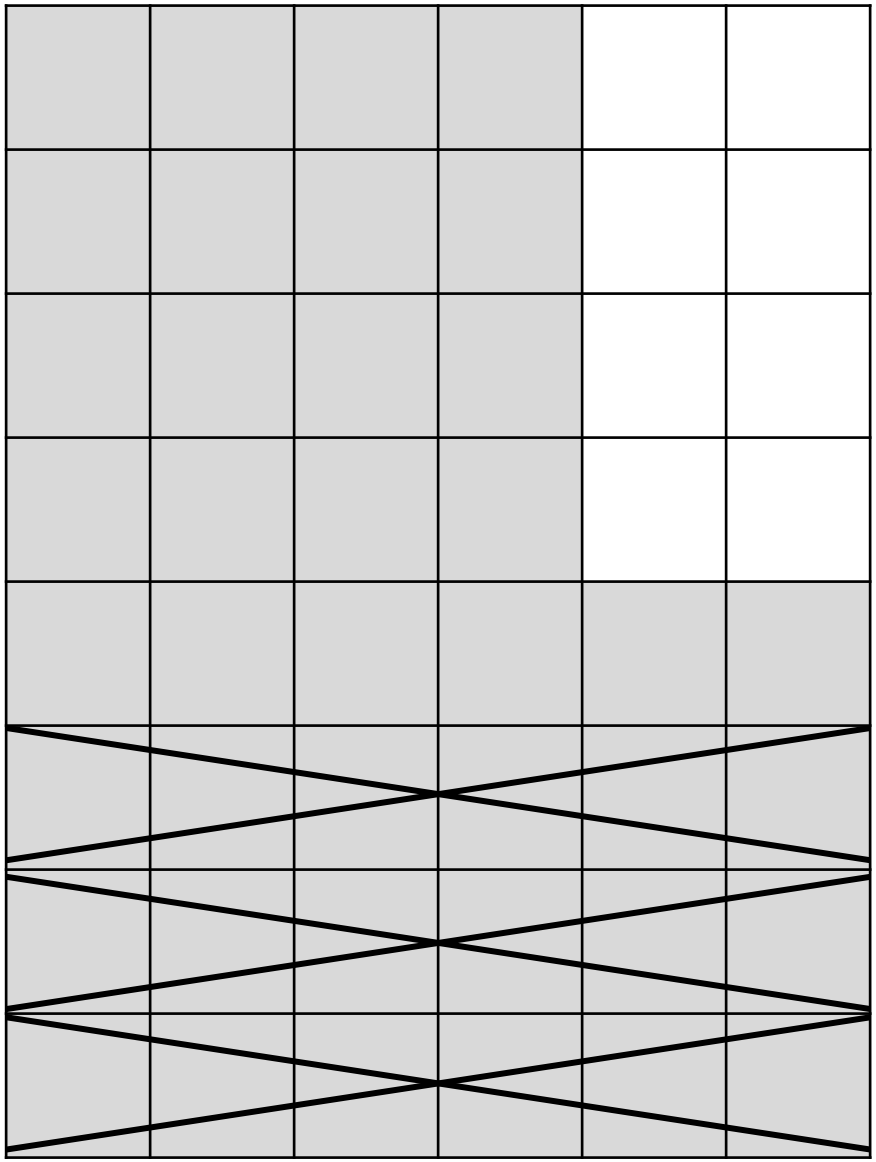
25. Murray is responsible for water for the soccer team. He bought all the water he thought he would need for the first 5 games at the beginning of the month. After the first game he had 5/6 of the water left. Then at the second game the team drank another 3/8 of the water supply. What fraction of his water supply does Murray have to last for the rest of the games?

A. $\frac{8}{24}$

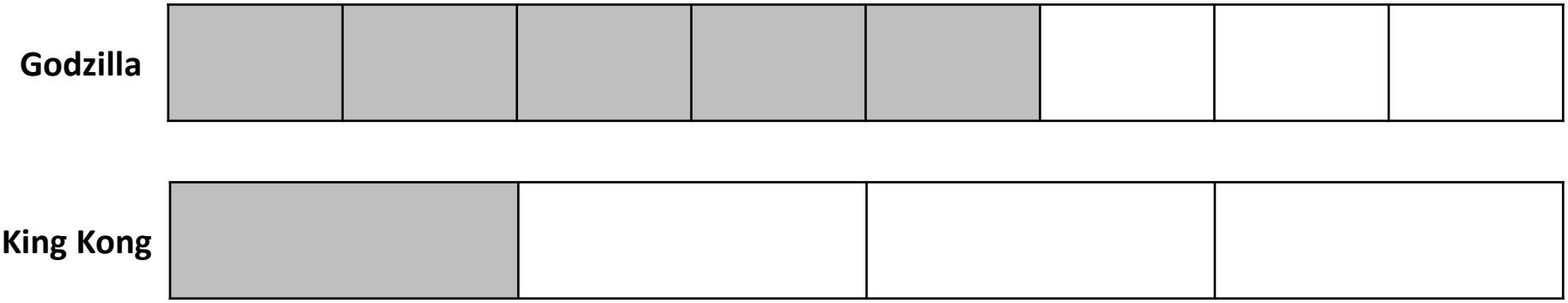
C. $\frac{18}{24}$

B. $\frac{11}{24}$

D. $\frac{12}{24}$



26. Our city is having some trouble with monsters. The models show the fraction of our city that that each monster has destroyed so far.



What fraction of the city have Godzilla and King Kong destroyed altogether?

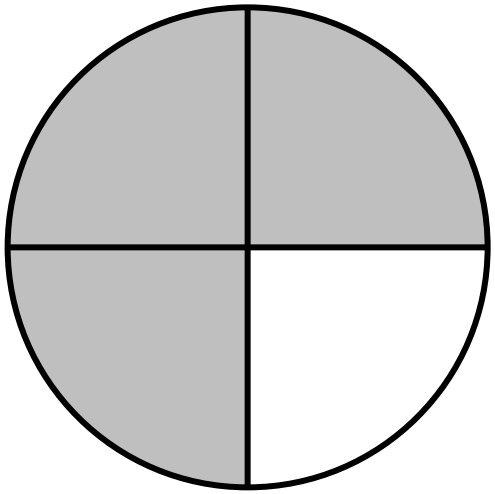
A. $\frac{3}{4}$

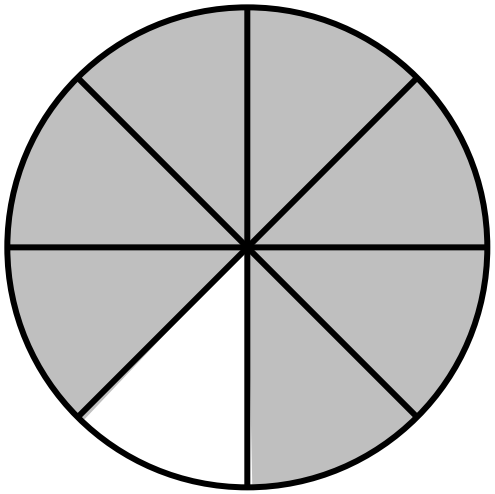
C. $\frac{4}{5}$

B. $\frac{6}{8}$

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

27. Zariya made two pies for her bakery. She sliced one pie into 4 slices and one pie into 8 slices. The shaded portion shows the parts of the pies that Zariya sold that day at her bakery.





How much pie did Zariya sell altogether?

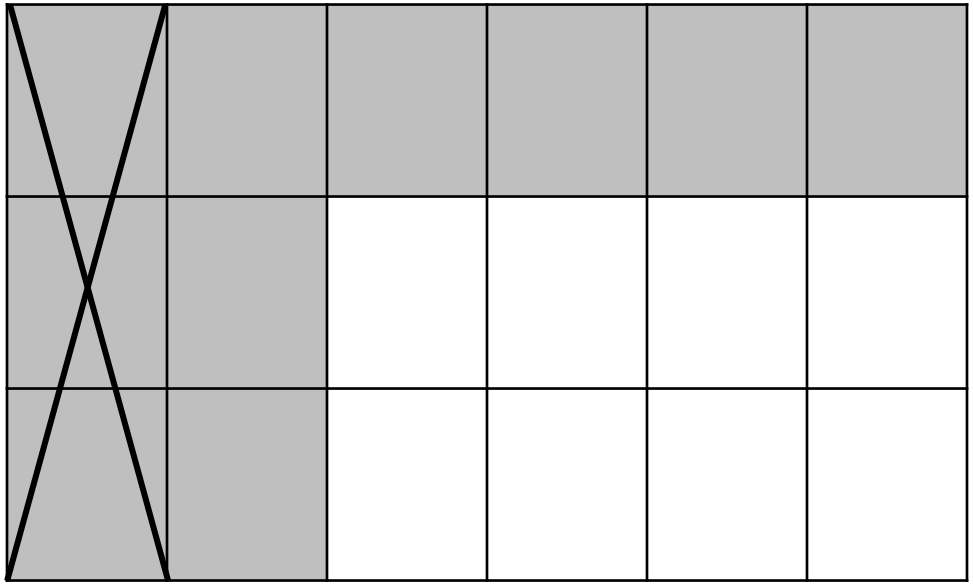
A. $1\frac{5}{8}$ pies

C. $\frac{7}{8}$ pie

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

D. $1\frac{7}{8}$ pies

28. The shaded part of the model represents a fraction. Another fraction was subtracted from the first fraction.



Which expression does the model represent?

A. $\frac{14}{18} - \frac{2}{6}$

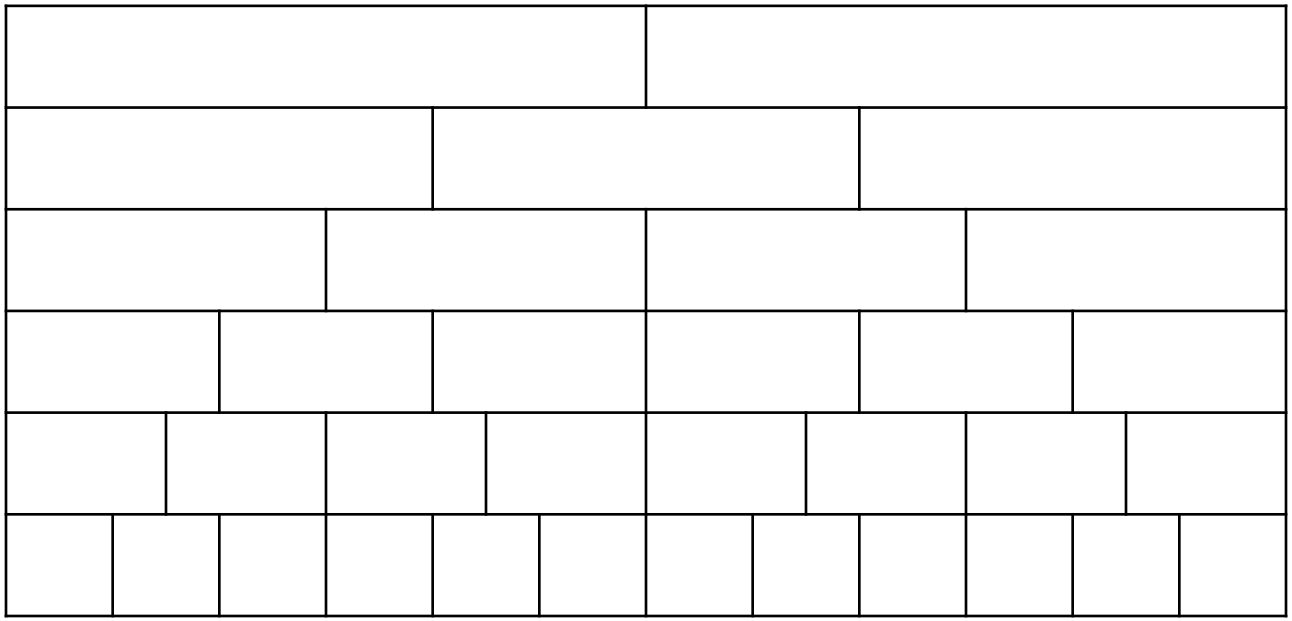
C. $\frac{10}{18} - \frac{1}{6}$

B. $\frac{8}{18} - \frac{1}{6}$

D. $\frac{10}{18} - \frac{8}{18}$

29. Vivianna used the fraction strips shown to help her determine the difference between $\frac{3}{4}$ and $\frac{2}{3}$.

Fraction Strips



What is $\frac{3}{4} - \frac{2}{3}$?

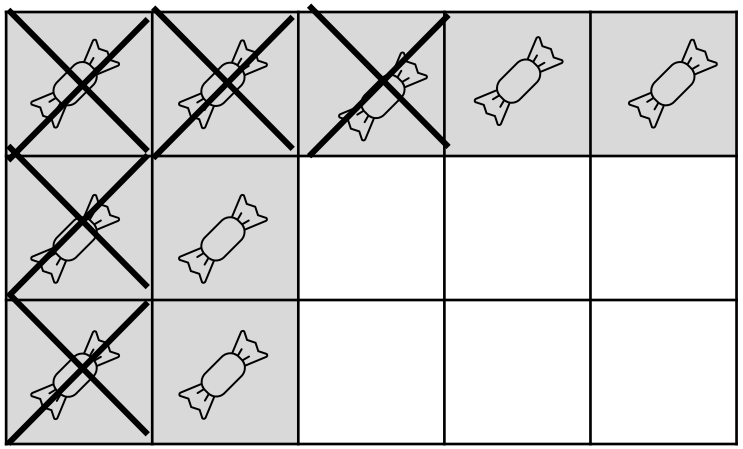
A. $\frac{1}{4}$

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

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

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

30. Carlotta the Cavity Queen found $\frac{3}{5}$ of a box of candy in her desk drawer. The shaded area shows the fraction of the box of candy Carlotta found. The "X's" show the candy that Carlotta ate as soon as she found the box. What fraction of the box of candy is left?



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

C. $\frac{6}{15}$

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

D. $\frac{4}{15}$