MATH REVIEW BOOKLET

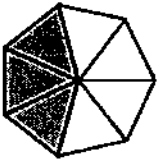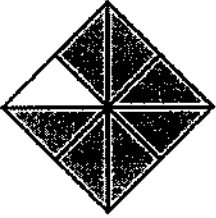# Fractions

Name: _____

Date: _____

Name the fraction represented by the shaded area of each shape.

1)

2)

3)

4)

5)

1

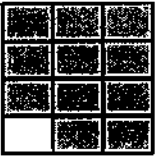---

Name the fraction represented by the shaded area of each shape.

1)

2)

3)

4)

5)

1

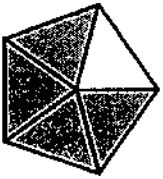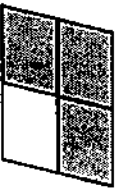Name the fraction represented by the <u>unshaded</u> area of each shape.

1)

2)

3)

4)

5)
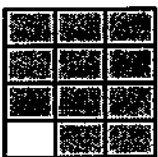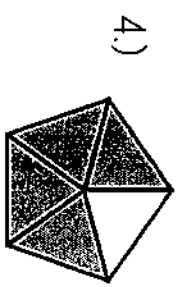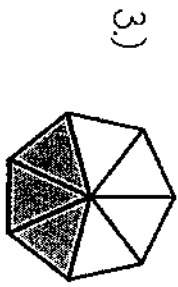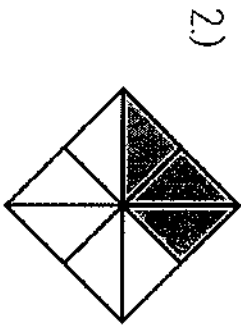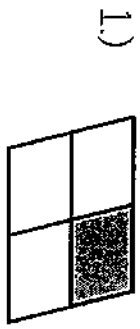
2

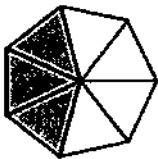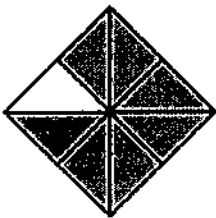Name the fraction represented by the <u>unshaded</u> area of each shape.

1)

2)

3)

4)

5)
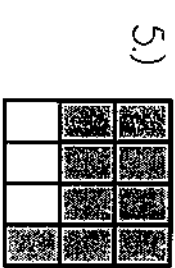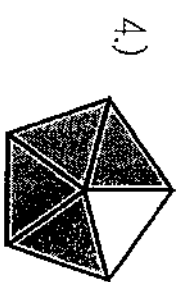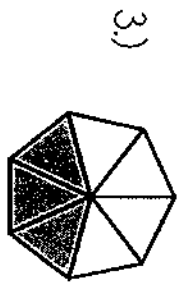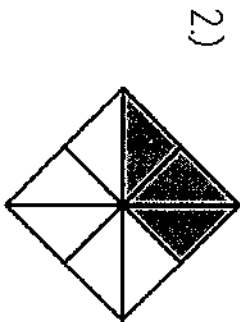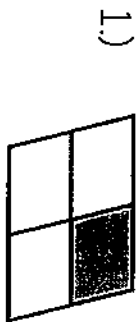
2

Label the fraction on the number line.
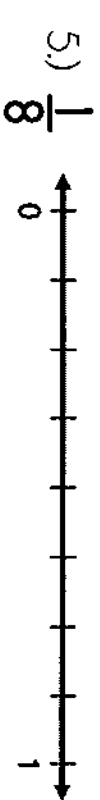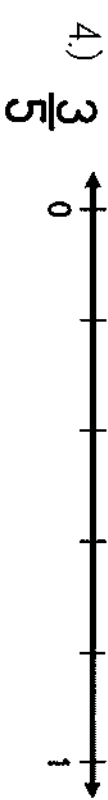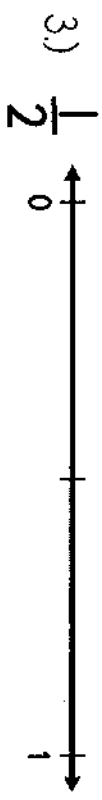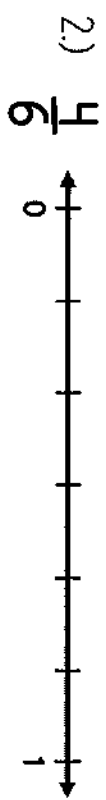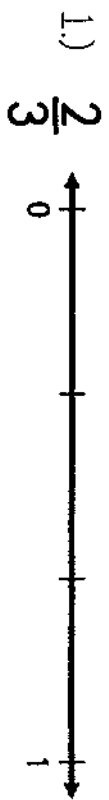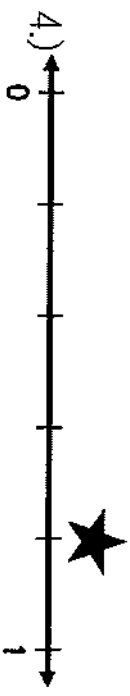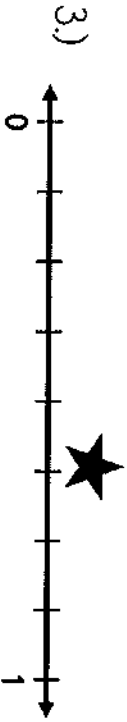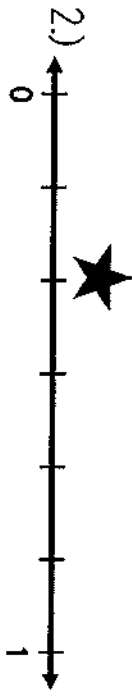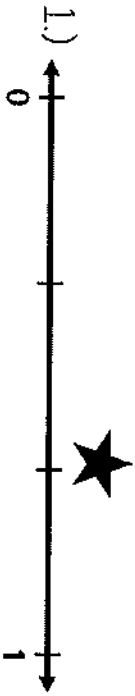
1) $\dfrac{2}{3}$

0 |————|————|————| 1

2) $\dfrac{4}{6}$

0 |————|————|————|————|————|————| 1

3) $\dfrac{1}{2}$

0 |————|————| 1

4) $\dfrac{3}{5}$

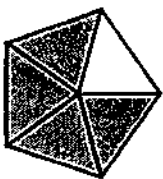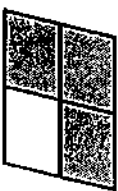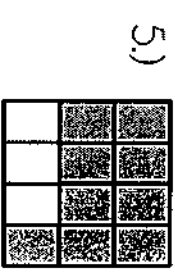0 |————|————|————|————|————| 1

5) $\dfrac{1}{8}$

0 |————|————|————|————|————|————|————|————| 1

3

Write the fraction represented by the star.

1)
0 ━━━┿━━━★━┿━━━ 1

2)
0 ━━★━┿━━━┿━━━ 1

3)
0 ━━━┿━★━┿━━━┿━━━┿━━━ 1

4)
0 ━━━┿━━━┿━★━┿━━━┿━━━ 1

5)
0 ━━━┿━★━┿━━━┿━━━┿━━━ 1

4

Write the fraction represented by the star.

1)
0 ━━━┿━━★━┿━━━ 1

2)
0 ━━★━┿━━━┿━━━ 1

3)
0 ━━━┿━★━┿━━━┿━━━┿━━━ 1

4)
0 ━━━┿━━━┿━★━┿━━━┿━━━ 1

5)
0 ━━━┿━★━┿━━━┿━━━┿━━━ 1

4
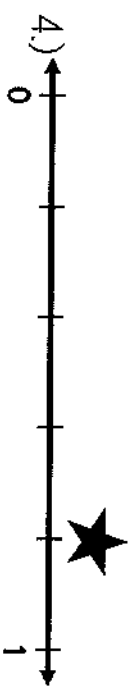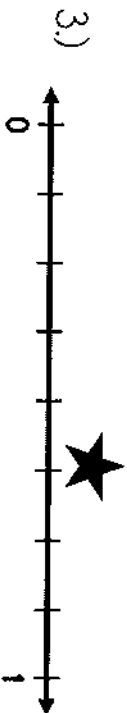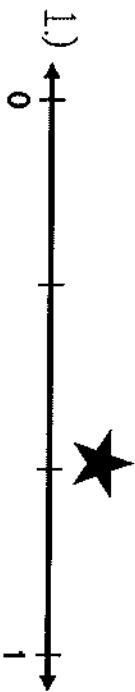
Draw the two different models to represent the fraction.

1.) $\frac{2}{8}$

2.) $\frac{6}{8}$

3.) $\frac{3}{9}$

4.) $\frac{8}{10}$

5.) $\frac{2}{3}$

5

Draw the two different models to represent the fraction.

1.) $\frac{2}{8}$

2.) $\frac{6}{8}$

3.) $\frac{3}{9}$

4.) $\frac{8}{10}$

5.) $\frac{2}{3}$

5

Generate three equivalent fractions for the fraction listed.

1) $\frac{1}{2}$

2) $\frac{1}{3}$

3) $\frac{3}{4}$

4) $\frac{2}{3}$

5) $\frac{1}{6}$

6

Determine if the fraction pairs are equivalent.
Explain your answer.

1. $\dfrac{2}{8}$ $\dfrac{1}{4}$

2. $\dfrac{1}{2}$ $\dfrac{3}{4}$

3. $\dfrac{2}{6}$ $\dfrac{2}{3}$

4. $\dfrac{8}{10}$ $\dfrac{4}{5}$

5. $\dfrac{2}{3}$ $\dfrac{4}{6}$

7.

Determine if the fraction pairs are equivalent.
Explain your answer.

1. $\dfrac{2}{8}$ $\dfrac{1}{4}$

2. $\dfrac{1}{2}$ $\dfrac{3}{4}$

3. $\dfrac{2}{6}$ $\dfrac{2}{3}$

4. $\dfrac{8}{10}$ $\dfrac{4}{5}$

5. $\dfrac{2}{3}$ $\dfrac{4}{6}$

7.

Simplify the fractions.

1. $\dfrac{2}{8}$ _____

2. $\dfrac{6}{8}$ _____

3. $\dfrac{3}{9}$ _____

4. $\dfrac{8}{10}$ _____

5. $\dfrac{4}{6}$ _____

6. $\dfrac{6}{9}$ _____

7. $\dfrac{5}{10}$ _____

8. $\dfrac{3}{6}$ _____

9. $\dfrac{2}{10}$ _____

10. $\dfrac{2}{4}$ _____

11. $\dfrac{2}{6}$ _____

12. $\dfrac{4}{8}$ _____

Convert the mixed numbers to improper fractions.

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

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

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

4. $2\frac{3}{4}$ _____

5. $1\frac{2}{6}$ _____

6. $2\frac{2}{4}$ _____

7. $3\frac{2}{3}$ _____

8. $2\frac{5}{6}$ _____

9. $4\frac{2}{3}$ _____

10. $2\frac{1}{4}$ _____

11. $3\frac{1}{2}$ _____

12. $3\frac{1}{4}$ _____

Convert the improper fractions to mixed numbers.

1. $\dfrac{13}{5}$ _____

2. $\dfrac{7}{2}$ _____

3. $\dfrac{7}{6}$ _____

4. $\dfrac{3}{2}$ _____

5. $\dfrac{11}{5}$ _____

6. $\dfrac{9}{4}$ _____

7. $\dfrac{8}{3}$ _____

8. $\dfrac{13}{6}$ _____

9. $\dfrac{6}{5}$ _____

10. $\dfrac{5}{2}$ _____

Decompose the fraction in at least two ways.

1. $\dfrac{5}{6}$

2. $\dfrac{7}{8}$

3. $\dfrac{6}{9}$

4. $\dfrac{8}{10}$

5. $\dfrac{4}{5}$

11

Decompose the fraction in at least two ways.

1. $\dfrac{5}{6}$

2. $\dfrac{7}{8}$

3. $\dfrac{6}{9}$

4. $\dfrac{8}{10}$

5. $\dfrac{4}{5}$

11

Add or subtract the fractions.

12

1. $\dfrac{8}{9} - \dfrac{2}{9} =$ _____

2. $\dfrac{1}{8} + \dfrac{2}{8} =$ _____

3. $\dfrac{3}{5} - \dfrac{2}{5} =$ _____

4. $\dfrac{1}{16} + \dfrac{6}{16} =$ _____

5. $\dfrac{3}{12} + \dfrac{5}{12} =$ _____

Solve. Show all of your work

1. Griffin cuts two pieces of string. One string measures 3/4 of a foot, and the other measures 1/4 of a foot. What is the difference in the two lengths of string?

2. Rebecca is visiting her sister across town. Before she leaves her neighborhood, she stops at the local gas station and fills up 1/3 of her gas tank. On the way back, she stops and fills up another 1/3 of her gas tank. How much of her gas tank did Rebecca fill before and after visiting her friend?

3. Lynn needs 6/8 of a cup of milk for a recipe she is making. She has 4/8 cup of milk already. How much more milk does Lynn need for her recipe?

13

Add or subtract the mixed numbers.

1. $2\dfrac{5}{6} - 2\dfrac{1}{6} =$ _____

2. $1\dfrac{4}{5} + 3\dfrac{2}{5} =$ _____

3. $4\dfrac{6}{8} - 1\dfrac{1}{8} =$ _____

4. $5\dfrac{2}{12} + 3\dfrac{9}{12} =$ _____

5. $3\dfrac{1}{2} - 2\dfrac{1}{2} =$ _____

Subtract the mixed numbers.

1. $3\dfrac{1}{4} - 2\dfrac{3}{4} =$ _____

2. $4\dfrac{1}{3} - 3\dfrac{2}{3} =$ _____

3. $4\dfrac{2}{4} - 3\dfrac{3}{4} =$ _____

4. $5\dfrac{2}{6} - 2\dfrac{5}{6} =$ _____

5. $3\dfrac{4}{8} - 1\dfrac{6}{8} =$ _____

15

Subtract the mixed numbers.

1. $3\dfrac{1}{4} - 2\dfrac{3}{4} =$ _____

2. $4\dfrac{1}{3} - 3\dfrac{2}{3} =$ _____

3. $4\dfrac{2}{4} - 3\dfrac{3}{4} =$ _____

4. $5\dfrac{2}{6} - 2\dfrac{5}{6} =$ _____

5. $3\dfrac{4}{8} - 1\dfrac{6}{8} =$ _____

15

Solve. Show all of your work

1. Riley spent some time last weekend working on his science project. He spent 2 3/4 hours on Saturday, and 1 2/4 hours on Sunday. How long did Riley spend on his project in all?

2. A carpenter is working on a project. To finish the project, he needs 4 1/2 feet of wood. He has 8 feet of wood already. How much wood will he have leftover after he uses the wood for his project?

3. Gisselle walks each day after work. She walks 3 1/8 miles on Mondays, Wednesday, and Thursdays. On Tuesdays and Fridays, she walks 2 4/8 miles. How many more miles does she walk on Monday than on Friday?

16

Solve.

1. $\dfrac{1}{2} \times 2 =$ _____

2. $3 \times \dfrac{2}{3} =$ _____

3. $\dfrac{3}{4} \times 6 =$ _____

4. $4 \times \dfrac{6}{8} =$ _____

5. $\dfrac{10}{12} \times 2 =$ _____

6. $8 \times \dfrac{1}{2} =$ _____

17

Solve.

1. $\dfrac{1}{2} \times 2 =$ _____

2. $3 \times \dfrac{2}{3} =$ _____

3. $\dfrac{3}{4} \times 6 =$ _____

4. $4 \times \dfrac{6}{8} =$ _____

5. $\dfrac{10}{12} \times 2 =$ _____

6. $8 \times \dfrac{1}{2} =$ _____

17

Solve. Show all of your work

1. Hernan has 15 skittles leftover from his bag. He gives 2/3 of the skittles to his little brother, Jamie. How many skittles does he give Jamie?

3. Jaclyn's mom is buying hamburger meat for groceries. She buys 4 packages of hamburger meat that are on sale. Each package contains 1/2 of a pound of hamburger meat. How much meat does Jaclyn's mom buy?

3. Shelby has some assigned reading to complete for homework. She has 24 pages to read. She reads 3/4 of her assigned reading before dinner. How many pages of her reading did Shelby read before dinner?

18

Compare the fractions using <, >, or =.

1) $\frac{1}{3}$ $\frac{2}{3}$

2) $\frac{6}{8}$ $\frac{4}{8}$

3) $\frac{3}{9}$ $\frac{3}{4}$

4) $\frac{8}{10}$ $\frac{6}{10}$

5) $\frac{2}{3}$ $\frac{2}{6}$

19

Order the fractions from least to greatest.

1) $\frac{3}{9}$ $\frac{6}{9}$ $\frac{5}{9}$ $\frac{7}{9}$

2) $\frac{2}{3}$ $\frac{2}{8}$ $\frac{2}{4}$ $\frac{2}{5}$

3) $\frac{3}{9}$ $\frac{3}{6}$ $\frac{3}{4}$ $\frac{3}{5}$

4) $\frac{8}{10}$ $\frac{1}{10}$ $\frac{5}{10}$ $\frac{6}{10}$

5) $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{8}$

20