

MATH



100

80

60

40

20

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Jan-Apr

May-Aug

Sept-Dec

- Promotes deep understanding of math concepts
- Reinforces higher-order thinking through reflective math tasks
- Provides standard-specific math problems on each page
- Includes Common Core alignment chart and problem-solving rubric

Mathematically proficient students understand and use mathematical concepts and skills to solve problems. They analyze a problem to make a plan and persevere to solve it. They monitor their progress and adjust their strategies as needed. They use appropriate tools strategically. They attend to precision, using clear and accurate communication in discussing mathematical ideas. They look for and make use of structure. They use repeated reasoning to identify and justify an underlying pattern.

Name _____

Solve. Then, draw a line from each multiplication problem to the matching phrase.

- | | |
|-------------------------|---------------|
| 1. $3 \times 2 =$ _____ | 4 groups of 2 |
| 2. $2 \times 5 =$ _____ | 5 groups of 5 |
| 3. $4 \times 2 =$ _____ | 2 groups of 5 |
| 4. $5 \times 5 =$ _____ | 3 groups of 2 |

Solve. Show your mathematical thinking.

5. The Girls' Club meets 3 times every week at their clubhouse. At each meeting, the girls complete 2 community service projects. How many community service projects will they complete over a 6-week period?



Reflect

How can drawing a diagram help you solve problem 5?

Name _____

Draw a picture to show each problem. Then, solve.

1. $4 \times 4 =$ _____

2. $3 \times 3 =$ _____

3. $5 \times 5 =$ _____

4. $2 \times 7 =$ _____

Solve. Show your mathematical thinking.

5. Jayla found 11 starfish. Each starfish had 5 arms. If Jayla's sister found 10 more starfish, and Jayla's brother found 8 more starfish, how many starfish arms did they find in all?



Reflect

Explain two different ways to solve problem 5.

Name _____

Solve.

1. $\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$

2. $\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$

3. $\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$

4. $\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$

5. $\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$

Solve. Show your mathematical thinking.

6. The mail carrier delivers letters to 8 houses on a city block. He delivers 3 letters to each house. How many letters does the mail carrier deliver in all? How many letters will the mail carrier deliver if he has 5 city blocks that each have 8 houses, and he delivers 3 letters to each house?



Reflect

Explain why the mail carrier may only have 114 letters on some days or 153 letters on other days.

Name _____

Solve.

1. $21 \div 3$ How many threes are in 21? _____

2. $30 \div 5$ How many fives are in 30? _____

3. $36 \div 9$ How many nines are in 36? _____

4. $18 \div 6$ How many sixes are in 18? _____

Solve. Show your mathematical thinking.

5. Jan is making a quilt. She wants the quilt to be 8 squares tall and 7 squares wide. She has 168 hand-sewn stars to put on the quilt squares. If each square has an equal number of stars, how many stars will she sew onto each square?



Reflect

How would your answer change if the quilt were 6 squares tall and 7 squares wide?

Name _____

Draw a picture to show each problem. Then, solve.

1. $10 \div 2 =$ _____ 2. $24 \div 3 =$ _____ 3. $9 \div 1 =$ _____ 4. $40 \div 8 =$ _____

Solve. Show your mathematical thinking.

5. Terrance tackled a total of 42 football players in the last 6 games. He tackled the same number of players each game. How many players did Terrance tackle each game? If he continues to tackle 42 players every 6 games, how many total players will Terrance have tackled after 12 games? After 18 games?



Reflect

Explain the pattern you see in problem 5.

Name _____

Solve.

1. $63 \div 7 =$ _____

2. $45 \div 9 =$ _____

3. $16 \div 4 =$ _____

4. $20 \div 5 =$ _____

5. $18 \div 6 =$ _____

6. $48 \div 8 =$ _____

Solve. Show your mathematical thinking.

7. Alexa knocked down 70 bowling pins in 10 frames. In each frame, Alexa knocked down the same number of pins. How many pins did Alexa knock down in each frame? If Alexa knocked down 80 bowling pins in 10 frames in the second game, and 60 bowling pins in 10 frames in the third game, what was the total number of bowling pins Alexa knocked down in all three games?



Reflect

Describe Alexa's bowling ability based on the three games she bowled in problem 7.

Name _____

Solve.

1. Rudy had 6 bags. He placed 9 marbles in each bag. How many marbles did he have altogether? _____
2. The store display had 9 shelves. The stock boy placed 9 boxes of cereal on each shelf. How many boxes of cereal were on display? _____
3. Zach runs 6 miles, 5 days a week. How many miles does he run in one week?

Solve. Show your mathematical thinking.

4. Jenna writes 2 pages in her diary each day of the week. How many pages does she write each week? About how many pages does she write each month? Each year?



Reflect

What information do you need to know to calculate the exact number of pages Jenna writes each month and each year?

Name _____

Solve.

1. David has 12 goldfish. He has 2 fish tanks. How many goldfish will be in each tank if he divides them evenly? _____
2. Daysha bought 8 bracelets. She will wear the same number on each wrist. How many bracelets will she have on each wrist? _____
3. Mischa had 81 beads to make necklaces. She used 9 beads for each necklace. How many necklaces did she make? _____

Solve. Show your mathematical thinking.

4. Michaela has 46 crayons. She has 6 bins. She wants to keep the same number of crayons in each bin. How many more crayons will she need to fill another bin?



Reflect

Explain a different way to solve problem 4.

Name _____

Solve.

1. Taron has 4 stacks of cards with 8 cards in each stack. How many cards does he have? _____
2. Jennifer jumped over 5 rocks. She jumped over each rock 9 times. How many times did she jump? _____
3. Ms. Martinez made a scrapbook for her daughter. The scrapbook had 7 pages. Each page had 6 pictures. How many pictures were in the scrapbook?

Solve. Show your mathematical thinking.

4. John has 147 baseball cards. He keeps his baseball cards in notebooks. Each notebook has 8 pages. Each page can hold 9 cards. Will two notebooks be enough to hold all of his cards? If not, how many cards will be leftover? How many more cards will he need to fill another notebook?



Reflect

Explain the steps you used to solve problem 4.

Name _____

Solve.

1. $3 \times \underline{\hspace{2cm}} = 27$ 2. $3 \times \underline{\hspace{2cm}} = 42$ 3. $5 \times \underline{\hspace{2cm}} = 50$ 4. $12 \times \underline{\hspace{2cm}} = 36$

Solve. Show your mathematical thinking.

5. A group of girls who collect buttons have 64 buttons altogether. Each girl has 8 buttons in her individual collection. If each girl brings an additional 5 buttons to their group meeting to donate to a shirt-making charity, how many buttons will they donate to the charity?



Reflect

Write at least 2 unknown factor equations that could be used to answer problem 5.
