

2016 Summer Math Reinforcement Packet
for Students Entering 6th Grade
“30 Days of Math”

Adapted from <https://www.aea267.k12.ia.us>

Reinforcing and practicing math skills learned during the school year can be exceptionally beneficial to academic growth in the Fall. The 6th grade math curriculum will expand on the knowledge and skills taught in 5th grade. Help your child be prepared by having him/her complete a set of review problems for 30 days this summer! Spending 5 – 10 minutes each day sharpening math skills will give your child the boost they need to start the year off well! Remember to show your work on this page or a separate sheet of paper!

STUDENT'S NAME: _____

Day 1

1. $12 \times 8 =$

2. $24 \times 12 =$

3. $25 \times 9 =$

4. Jim has 236 baseball cards. He gave 22 to his friend, Tom. How many baseball cards did Jim have left?

5. $210 + 326 + 18 =$

6. $12.3 + 15.12 =$

7. $5.63 + 5.02 =$

Day 2

1. $824 + 123 + 908 =$

2. $26.25 + 13.75 =$

3. $100 \times 23 =$

4. There were 15 bags of apples. Each bag had an assortment of 6 different types of apples. What is the total number of apples?

5. What is the place value of the 6 in 516?

6. What is the place value of 8 in 1,842?

7. Round \$13.24 to the nearest whole dollar.

Day 3

1. How many hours are in 3 days?

2. $462 - 125 =$

3. Jan had \$5.85. She bought a candy bar for \$1.60. How much money does Jan have left?

4. $345 \div 15 =$

5. $450 \div 10 =$

6. $78 \div 2 =$

7. John bought 2 hot dogs for \$2.15 each and 2 drinks for \$1.50 each. How much did he spend in total?

Day 4

1. How many seconds are in 25 minutes?

2. $810 \div 9 =$

3. $25 - 9 =$

4. $15 + 27 + 18 + 20 =$

5. $624 - 15 =$

6. Molly had 426 stickers. Susan had half as many. How many stickers did Susan have?

7. How many stickers did Molly and Susan have together?

Day 5

1. 5 hours = _____ minutes.

2. What is $\frac{1}{4}$ of 24?

3. $72 \times 12 =$

4. $5 \times 130 =$

5. $240 - 142 =$

6. $14.832 - 6.005 =$

7. $80 \div 16 =$

Day 6

1. Circle the number with the greater value. 15, 035 or 15, 305

2. Circle the number with the greater value. 2. 005 or 2. 05

3. Which number is in the hundredths place? 145.789

4. A strawberry crate holds 12 quarts of berries. If you fill 6 crates, how many quarts will there be?

5. Write 7 tens, 9 hundreds, 0 ones. _____

6. $940 - 263 =$

7. $128 - 87 =$

Day 7

1. $3676 + 1289 =$

2. $8900 - 2617 =$

3. $37 + 26 =$

4. Write five thousand two hundred.

5. Round 857 to the nearest hundred.

6. How much money? 2 dollars, 2 quarters, 2 dimes, 2 nickels _____

7. $72 \div 8 =$

Day 8

1. How much money? 3 quarters, 5 dimes. _____

2. $7 \times 80 =$

3. $256 + 999 =$ 4. $1630 - 827 =$ 5. Round 256 to the nearest hundred.
6. $\frac{2}{3}$ of 30 = ____
7. Linda bought 8 boxes of crayons. Each box has 8 crayons. How many crayons did she have?

Day 9

1. How many minutes in 12 hours? 2. Is 39 a prime or composite number?
3. What is the Greatest Common Factor of 12 and 24?
4. $80.56 + 12.40 =$ ____ 5. $2,356 + 1,472 =$ ____ 6. $14 \times 32 =$ ____
7. Seven boys donated \$1.20 toward a party. If the party cost \$10 how much more money was needed? _____

Day 10

1. $256 \div 2 =$ ____ 2. $860 \times 2 =$ ____ 3. $\frac{1}{3}$ of 9 = ____
4. How much money? 4 dollars , 6 dimes and 6 pennies. _____
5. What is the Greatest Common Factor of 18 and 30?
6. List the first five multiples of 4.
7. Mike bought a DVD for \$6.38. If he paid with a \$10 bill, how much change did he receive back?

Day 11

1. Name 6 factors of 12.
2. $987 \times 5 =$
3. $67,460 + 9,876 =$
4. Round \$37.62 to the nearest dollar.
5. 2 days = _____ hours
6. $(5 \times 7) \times 8 = (5 \times n) \times 7$ What number should replace the n ?
7. Karla earned \$7.35. She bought a book. She now has \$4.79. What did the book cost?

Day 12

1. $(512 \times 8) \div 8 =$
2. 24 quarts = _____ gallons
3. If the product is 220 and one factor is 5, what is the other factor?
4. $9000 + 30 + 4 =$
5. Estimate the product of 294 and 38.
6. $509 \div 6 =$
7. Three girls gave a party. They spent \$4.95. If they shared equally what did they each pay?

Day 13

1. Tom had \$10.00. He spent \$1.06. How much money did he have left?
2. How much money? 5 dollars, 2 quarters, 5 dimes, 2 pennies.
3. $200 \times 60 =$
4. $3.75 \times 5 =$
5. $4.5 \times 10 =$
6. Joe mows lawns for \$15. How much money will he make if he mows 8 lawns?

7. How many lawns did Joe mow if he made \$300?

Day 14

The 6th grade class is planning a pizza party! There are 18 students in the class, along with their teacher, Mrs. Smith.

- Mrs. Smith bought 6 pizzas. Each pizza is cut into 6 slices. How many slices of pizza will each student receive?
 - 6 students wanted cheese pizza. Express the number of students that wanted cheese pizza as a fraction in simplest form.
 - 3 students wanted the "meat lovers" pizza! Express the number of students that wanted the "meat lovers" pizza as a fraction in simplest form.
 - If each pizza cost \$5.95, what was the total cost of the pizzas?
 - Of course, the students had to have drinks to go with their pizza! Mrs. Smith bought 3 pitchers of lemonade, each containing 32 ounces. How many total ounces of lemonade did Mrs. Smith provide?
 - If Mrs. Smith poured the lemonade into 6 oz. cups, how many cups could she fill with lemonade?
 - Uh-oh, did she have enough? Why or why not?
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Day 15

- $444 \div 6 =$
 - $(3 \times 20) + 49 =$
 - $\frac{1}{3}$ of 18 =
 - Write in standard form. $5000 + 20 + 8$
 - $80 \div 10 =$
 - Each fifth grader has 6 books. How many books do 22 students have? _____
 - If one-third of the 6 books are for English class, how many books are allocated for English? _____
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Day 16

- Continue the pattern: 3, 6, 9, 12, ?, ?, ?
- List the first 4 multiples of 12.

3. What is Greatest Common Factor of 25 and 30?
 4. What is the place value of the 5 in 0.592? 5. What is the place value of the 2 in 0.482?
 6. The school ordered 38 packages of paper. Each package has 500 sheets. How many sheets of paper were there in all? _____
 7. What is the perimeter of a triangle with sides 15 inches , 21 inches and 18 inches?
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Day 17

Find each quotient.

1. $375 \div 25 = \underline{\quad}$
 2. $192 \div 24 = \underline{\quad}$
 3. $432 \div 12 = \underline{\quad}$
 4. $1740 \div 12 = \underline{\quad}$
 5. $588 \div 6 = \underline{\quad}$
 6. How many halves are six wholes?
 7. Emily must separate 100 pieces of candy among 8 party bags. If each bag must contain an equal amount of candy, how many pieces will be placed in the party bags? How many pieces of candy will be left over?
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Day 18

1. Complete the pattern: 29 , 25 , 21 , ? , ? , ?.
2. $658 \div 30 = \underline{\quad}$
3. Find total price: 78¢, 82¢, 85¢ and 75¢.
4. Using the prices from #3, what is the average price?
5. One famous California tree is 300 feet tall. That's five times as tall as a fully grown maple tree. How tall is a fully grown maple?
6. Write the prime factorization (hint: remember factor trees?) of 120.

7. Write the prime factorization of 125.

Day 19

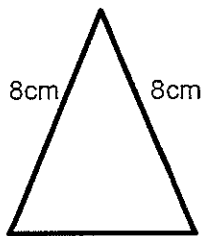
1. How much is 12 tens?
 2. Find the total: \$ 2.46 , \$0.65 , \$0.87 , \$1.40
 3. Three hot dogs cost \$2.40. How much is one hot dog?
 4. What is 8 less than 43?
 5. What is 16 more than 12?
 6. Party hats cost \$0.99. How many hats can Sally buy with \$8?
 7. $906 \div 6 = \underline{\quad}$
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Day 20

For each problem, solve for x.

1. $\frac{2}{5} = \frac{x}{15}$
 2. $25 - \quad = 8$
 3. $\frac{1}{4} = \frac{3}{x}$
 4. $412 + \quad = 735$
 5. $x - \frac{1}{2} = 3\frac{1}{2}$
 6. $78 - x = 52$
 7. $x - 42 = 100$
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Day 21



the perimeter of the triangle?
6 cm

2. Classify the triangle based on its sides.

3. $4365 \div 3 = \underline{\quad}$
4. $65 \times 42 = \underline{\quad}$

1. What is

-
5. Which is greater? 3g or 3 kg 6. Which is greater? 4cm or 14mm
7. Tim earns \$8.50 an hour. How much will he earn if he works 20 hours?
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Day 22

1. Allen had 236 baseball cards. Adam gave him 98 more. Then Allen gave 126 cards to his little sister. How many does he have left?
2. $6078 \times 9 = \underline{\quad}$ 3. Add: $\$2.30 + \$1.45 + \$0.16$
4. Marcos is 50 inches tall. How tall is he in feet and inches?
5. Lilly is 42 inches tall. How tall is she in feet and inches?
6. Find the average of Sam's test grades: 68 , 84, 82.
7. What is the place value of the 3 in 132,908?
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Day 23

1. If Henry has 38 football cards, and Charlie has twice as many, how many does Charlie have?
2. 20 minutes after 10:15 is what time?
3. 8 yards = feet 4. $4.5 + 6.2 + 0.15 = \underline{\quad}$ 5. $60 \times 10 = \underline{\quad}$
6. The length of the court is 36 feet. What the measurement in yards?

7. Find the average of Bill's homework grades: 100, 100, 85, 0.

Day 24

1. 5 years = _____ months
 2. How many seconds are in 3 hours?
 3. $48 \times 6 = \underline{\quad}$
 4. $15 \times 15 = \underline{\quad}$
 5. $6 \times 30 = \underline{\quad}$
 6. The school received 95 boxes of textbooks. There were 24 books in each box. How many books did the school receive?
 7. 15 minutes before 3:10 is what time?
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Day 25

1. How much money? 6 quarters, 3 dimes, 8 nickels, 2 pennies
 2. $3025 \times 6 = \underline{\quad}$
 3. $156 \div 4 = \underline{\quad}$
 4. $96 \div 3 = \underline{\quad}$
 5. Solve for x : $\frac{4}{8} = \frac{1}{x}$
 6. Solve for x : $27 + x = 55$
 7. Write $\frac{12}{15}$ in simplest form.
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Day 26

1. Write the prime factorization of 45.
2. Mr. Robinson is 74 inches tall. How tall is he in feet and inches?

Change each improper fraction to a mixed number.

3. $\frac{15}{2}$
4. $\frac{12}{5}$
5. $\frac{5}{2}$
6. $\frac{9}{4}$
7. $\frac{8}{2}$

Day 27

Change each mixed number to an improper fraction.

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

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

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

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

5. $1\frac{1}{3}$

6. A group of 260 people are going to the ball game. Each bus holds 61 people. How many buses are needed?

7. What is the Greatest Common Factor of 6 and 20?

Day 28 - Complete the multiplication problems. Get a parent to time you! I finished all the problems
in _____ minutes!

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1. What do you think are your two greatest strengths in math?
 2. What is one area of math that you think you could use more help?
 3. What is one thing you would like your teacher to know about you?