



Rising 6th Grade Math Summer Review Packet

Name: _____

The following is a review of math skills from Fifth Grade. Please complete this over the summer. It is due the first week of class. The purpose of the packet is to provide an opportunity for you to refresh yourself on some of the math skills that you will be using throughout Sixth Grade. In addition, 5-10 minutes of fact fluency practice should be done at least 3 times a week. This can be done on programs such as multiplication.com. If you have difficulty with any topics, it is recommended that you invest some time over the summer reviewing those particular skills. We recommend using the Khan Academy 5th Grade resources found online for extra support. Calculators should not be used except on exponents. Please show all work where calculations are necessary.

If you have any questions, please feel free to email me at jeden@theswiftschool.org.

Have a wonderful summer!

Ms. Eden

Place Value

1) Name the place of the underlined digit. 5,344,926

- A. millions
- B. hundred thousands
- C. ten thousands
- D. thousands

2) Name the place of the underlined digit. 3,113.205

- A. Thousandths
- B. Thousands
- C. Hundredths
- D. Hundreds

3) What is the standard form of three million, twenty-one thousand, ninety?

- A. 3,021,090
- B. 3,021,900
- C. 3,210,900
- D. 3,210,900

4) Find the value of 3^6

- A. 18
- B. 36
- C. 81
- D. 729

Add and Subtract Whole Numbers and Decimals

5) Round 6.239 to the nearest tenth.

- A. 6.3
- B. 6.24
- C. 6.23
- D. 6.2

6) Evaluate the sum. $9.232 + 48.005 + 6.537 =$

- A. 205.69
- B. 122.607
- C. 63.774
- D. 20.574

7) Evaluate the sum. $3.2 + 4.65 =$

- A. 7.85
- B. 4.97
- C. 49.7
- D. 7.97

8) Evaluate the difference. $53,432 - 25,674$

- A. 79,106
- B. 38,868
- C. 32,242
- D. 27,758

9) Jan's lunch bill is \$5.74. She pays with a \$10.00 bill. How much change does she receive?

- A. \$5.74
- B. \$4.74
- C. \$4.26
- D. \$5.26

Multiply Whole Numbers

10) Evaluate. $(8 \times 4) \times 5 =$

- A. 320
- B. 160
- C. 32
- D. 17

11) Evaluate. $8 \times 300 =$
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- A. 240
- B. 2400
- C. 320
- D. 1100

12) Evaluate. $32 \times 156 =$

- A. 5,312
- B. 780
- C. 312
- D. 4,992

13) What is the best estimate for 512×86 ?

- A. 50,000
- B. 36,000
- C. 45,000
- D. 32,000

Multiply Decimals

14) Estimate the product. $35.7 \times 249 =$

- A. 800
- B. 900
- C. 8,000
- D. 80,000

15) Estimate the product. $7.21 \times 4.67 =$

- A. 28
- B. 322
- C. 35
- D. 240

16) Evaluate the product. $45.67 \times 10 =$

- A. 456.7
- B. 4.567
- C. 4567
- D. 0.4567

17) Multiply. $2.7 \times 500 =$

- A. 13,500
- B. 1,350
- C. 103.5
- D. 10.35

18) Multiply. $\$31.90 \times 7$

- A. \$133.30
- B. \$22.33
- C. \$223.30
- D. \$217.30

19) Multiply. 5.21×6.8

- A. 35.428
- B. 354.28
- C. 72.94
- D. 7.294

Divide Whole Numbers

20) Estimate the quotient. $4,572 \div 88 =$

- A. 5
- B. 50
- C. 350
- D. 500

21) Divide. $987 \div 100$

- A. 9.87

- B. 9,870
- C. 0.987
- D. 987

22) Divide. $4.328 \div 1,000$

- A. 4,328
- B. 43.28
- C. 0.04328
- D. 0.004328

23) The zoo collected \$2884 in ticket fees one day. If each ticket cost \$7, how many people bought tickets?

- A. 402
- B. 412
- C. 512
- D. 522

31) Divide. $1495 \div 23$

- A. 65
- B. 79
- C. 787
- D. 650

Introduction to Number Theory and Fractions

32) Which is a prime number?

- A. 9
- B. 33
- C. 47
- D. 111

33) Which number is composite?

- A. 41
- B. 43
- C. 45
- D. 47

34) Which number is divisible by 2 ?

- A. 223
- B. 234
- C. 109
- D. 441

35) Which number is divisible by 3 ?

- A. 566
- B. 897
- C. 421
- D. 256

36) Which number is divisible by 10?

- A. 798
- B. 435
- C. 250
- D. 752

37) What is the greatest common factor (GCF) of 32 and 56?

- A. 16
- B. 8
- C. 224
- D. 1792

Which fraction is equivalent to $\frac{3}{4}$?

- A. $\frac{4}{3}$
- B. $\frac{5}{6}$
- C. $\frac{9}{16}$
- D. $\frac{21}{28}$

Write $\frac{13}{1000}$ as a decimal

- A. 1.3
- B. 0.13
- C. 0.013
- D. 0.0013

Convert $\frac{15}{11}$ to a mixed number

- A. $4\frac{1}{11}$
- B. $1\frac{1}{4}$
- C. $1\frac{4}{11}$
- D. $\frac{11}{15}$

Convert $3\frac{5}{9}$ to an improper fraction.

- A. $\frac{135}{9}$
- B. $\frac{32}{9}$
- C. $\frac{45}{3}$
- D. $\frac{27}{5}$

Add and Subtract Fractions

$$\frac{2}{7} + \frac{3}{7} =$$

- A. $\frac{5}{14}$
- B. $\frac{6}{49}$
- C. $\frac{5}{7}$
- D. $\frac{6}{7}$

$$\frac{4}{5} + \frac{3}{10} =$$

A. $\frac{7}{15}$

B. $\frac{12}{50}$

C. $\frac{7}{10}$

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

$$\frac{2}{3} + \frac{3}{4} =$$

A. $1\frac{5}{12}$

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

C. $1\frac{5}{7}$

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

$$2\frac{3}{10} + \frac{1}{5} =$$

A. $2\frac{4}{15}$

B. $2\frac{3}{50}$

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

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

$$\frac{8}{9} - \frac{2}{9} =$$

A. $1\frac{1}{9}$

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

C. $\frac{6}{18}$

D. $\frac{4}{9}$

$$\frac{4}{5} - \frac{3}{10} =$$

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

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

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

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

$$6\frac{5}{6} - 2\frac{7}{12} =$$

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

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

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

D. $8\frac{5}{12}$

Multiply Fractions

$$4 \times \frac{3}{5} =$$

A. $2\frac{2}{5}$

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

C. $6\frac{2}{3}$

D. $\frac{3}{20}$

$$\frac{3}{4} \times \frac{2}{5} =$$

A. $\frac{3}{20}$

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

C. $\frac{8}{15}$

D. $\frac{3}{10}$

$$1\frac{5}{8} \times \frac{3}{5} =$$

A. $1\frac{39}{40}$

B. $1\frac{3}{40}$

C. $\frac{39}{40}$

D. $1\frac{8}{13}$

Divide Fractions

$$3 \div \frac{1}{4}$$

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

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

C. 12

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

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

A. 24

B. $\frac{1}{24}$

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

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

$$\frac{1}{2} \div 9$$

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

B. 18

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

D. $\frac{1}{18}$

Geometry

Mr. Myers is buying a rug to fit his hallway. The rug is 20 feet by 15 feet.
What is the area of the rug?

- A. 35 ft.2
- B. 300 ft.3
- C. 300 ft.2
- D. 70 ft.2

What is the length of a side of a square which has an area of 144 cm² ?

- A. 48 cm.
- B. 31 cm.
- C. 12 cm.
- D. 36 cm.

The city built a square park that has a perimeter of 4,400 yards. How long is one side of this park?

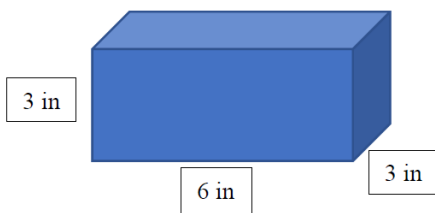
- A. 2,200 yards
- B. 1,100 square yards
- C. 1,100 yards
- D. 16,800 yards

What is the perimeter of a rectangle that is 14 ft x 8 ft?

- A. 112 ft²
- B. 44 ft²
- C. 112 ft
- D. 44 ft

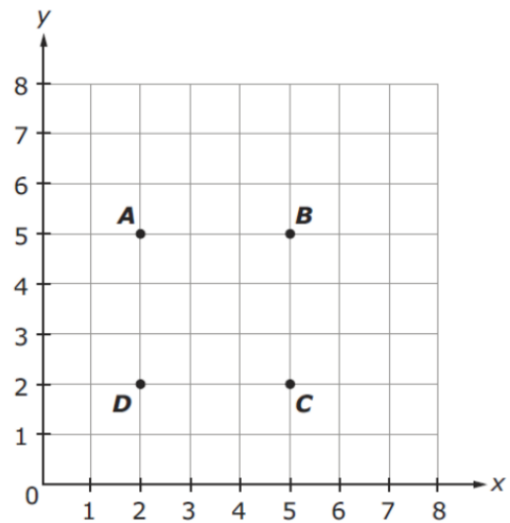
Find the volume of the rectangular prism.

- A. 18 in²
- B. 9 in²
- C. 54 in³
- D. 18 in³



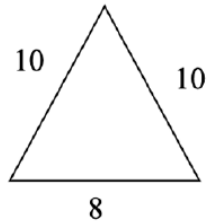
Use the coordinate plane to determine which point is located at **(5, 2)**?

- A. Point A
- B. Point B
- C. Point C
- D. Point D



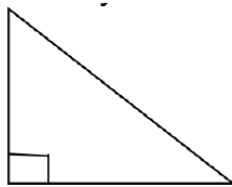
Classify the triangle.

- A. Equilateral
- B. Isosceles
- C. Scalene
- D. Right Triangle



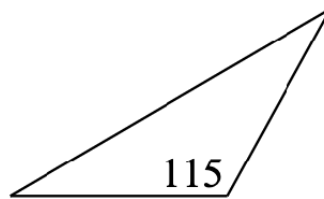
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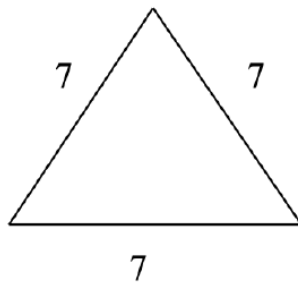
Classify the triangle.

- A. Acute
- B. Obtuse
- C. Right
- D. Isosceles



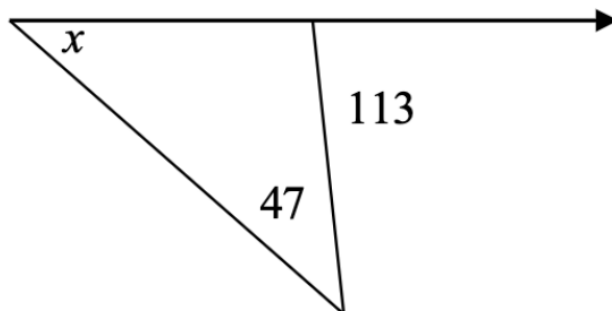
Classify the triangle.

- A. Acute
- B. Obtuse
- C. Right
- D. Isosceles
- E. Equilateral



What is the angle measure for the interior angle of the triangle labeled x .

- A. 20
- B. 47
- C. 66
- D. 67



Solve using order of operations: $4^3 + 6 \times 3 - 2$

- A. 52
- B. 208
- C. 28
- D. 80

Solve using order of operations:

$$22 + 7 \times 3 - (12 \div 4)$$

- A. 84
- B. 40
- C. 31
- D. 47