

**Summer Pre-Requisite Skills Practice 1** (Incoming grade 6 students) **NAME** \_\_\_\_\_

Show all your work in the space provided. Circle your answer. Do not use a calculator.

Please look at the school website under Academic & Student Programs during mid-July and August for practice sets number 2 and 3.

**Factors and Multiples**

1.	List the factors of 24.
2.	List the first 5 multiples of 12.
3.	Circle the factors of 18. 1, 2, 3, 4, 5, 6, 9, 12, 16, 18

Need help? <https://www.khanacademy.org/math/cc-fourth-grade-math/cc-4th-fact-mult-topic>

**Rounding**

4.	Round 24.589 to the nearest hundredth.
5.	Round 39.98 to the nearest whole number.
6.	Round \$24.844 to the nearest cent.

Need help? <https://learnzillion.com/lessons/3522-round-decimals-to-any-place>

**Simplifying Fractions**

7.)

$$\frac{10}{35}$$

8.)

$$\frac{9}{36}$$

9.)

$$\frac{64}{8}$$

Need help? [http://www.mathplayground.com/howto\\_fractions\\_reduce.html](http://www.mathplayground.com/howto_fractions_reduce.html)

**Order of Operations**

Simplify: 10.)  $8 \times [4 + (5 - 3)]$

11.)  $(3 + 2)^2 \times 6 - 1$

12.)  $2\frac{2}{5} \times 4\frac{1}{2} + 5^3 + 3$

Need help? <http://study.com/academy/lesson/order-of-operations.html>

### Add/Subtract Fractions

13.)  $\frac{7}{8} - \frac{2}{11} =$

14.)  $\frac{8}{14} + \frac{4}{14} =$

15.)  $\frac{5}{6} + \frac{5}{8} =$

Need help? [http://www.mathplayground.com/howto\\_fractions\\_diffden.html](http://www.mathplayground.com/howto_fractions_diffden.html)

### Two-digit multiplication without a calculator

16.)

$$\begin{array}{r} 97 \\ \times 21 \\ \hline \end{array}$$

17.)

$$\begin{array}{r} 58 \\ \times 75 \\ \hline \end{array}$$

18.)

$$\begin{array}{r} 41 \\ \times 55 \\ \hline \end{array}$$

Need help?

[https://www.khanacademy.org/math/arithmetic/multiplication-division/multi\\_digit\\_multiplication/v/multiplication-5-2-digit-times-a-2-digit-number](https://www.khanacademy.org/math/arithmetic/multiplication-division/multi_digit_multiplication/v/multiplication-5-2-digit-times-a-2-digit-number)

### Place Value

19.) What is the value of the 1 in 1,209?

20.) How many times larger is the first 4 than the last 4 in the number 46,241?

21.) How does the value of the 6 in the number 34,685 compare to the value of the 6 in the number 46,512?

Need help? <https://www.khanacademy.org/math/cc-fifth-grade-math/cc-5th-place-value-decimals-top>

### Add/Subtract Decimals

22.)

$41.3 - 20.65 = \underline{\hspace{2cm}}$

23.)

$93.72 - 31.060 = \underline{\hspace{2cm}}$

24.)

$82.5 + 70.01 = \underline{\hspace{2cm}}$

Need help? <https://learnzillion.com/lessonsets/189-adding-and-subtracting-decimals-to-hundredths>

**\*\*I had difficulty with the following questions (circle all that apply):**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

**\*\*After looking at the tutorials, I am still having trouble with the following (check all that apply):**

- Factors and Multiples (#1-3)
- Rounding (#4-6)
- Simplifying Fractions(#7-9)
- Order of Operations (#10-12)

- Add/Subtract Fractions (#13-15)
- Two-digit multiplication (#16-18)
- Place Value (#19-21)
- Add/Subtract Decimals (#22-24)