

Summer Pre-Requisite Skills Practice 1 (Incoming grade 8 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.

Integer Operations

In Exercises 1-4, perform the indicated operation. Write your answers as mixed numbers in simplest form.

1.	$7 - (-18) =$
2.	$-16 + 23 =$
3.	$-76 + -34 =$
4.	$-97 - 42 =$

Need help? <https://learnzillion.com/lessonsets/137>
<https://www.google.com/#q=khan+academy+integer+operations>

Rounding

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

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

Distributive Property with Fractions

8.)	9.)	10.)
$\frac{1}{3} \left(2h + \frac{1}{2} \right)$	$\frac{1}{2} \left(x + \frac{2}{3} \right)$	$\frac{1}{4} \left(2y + \frac{1}{2} \right) + \frac{1}{2}$

Need help? https://www.khanacademy.org/math/pre-algebra/order-of-operations/distributive_property/a/distributive-property-explained

Order of Operations

Simplify: 11.) $-8 \times [4 - (-5 + 3)]$

12.) $18 - 10 + 4 \div 2$

13.) $9 - (10 \div (-2) - 5)$

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

Multiplication and Division with Decimals (Round to the nearest thousandth)

14.) 3.48×9.8

15.) 5.1×3.6

16.) 7.68×9.4

Need help?

<https://www.khanacademy.org/math/pre-algebra/decimals-pre-alg/multiplying-decimals-pre-alg/v/intro-to-multiplying-decimals>

Multiplication and Division with Fractions

17.)

$$\frac{10}{30} \times \frac{4}{5} =$$

18.)

$$4\frac{1}{8} \times \frac{2}{3} =$$

19.)

$$2\frac{5}{6} \div \frac{2}{12}$$

Need help? <https://learnzillion.com/lessons/215-multiply-mixed-numbers-by-renaming-factors>

<https://learnzillion.com/lessons/3362-multiply-mixed-numbers-by-mixed-numbers-using-visual-representations>

Conversions

For #20-22, Convert each fraction to a decimal.

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

21.) $\frac{7}{8}$

22.) $\frac{14}{33}$

Need help? <https://learnzillion.com/lessonsets/10-convert-between-fractions-and-decimals>

Solving Equations

Solve for the indicated variable.

23.) $-9x + 1 = -80$

24.) $-15 = -4m + 5$

25.) $2(n + 5) = -2$

Need help? <http://www.virtualnerd.com/pre-algebra/one-two-step-equations/two-step/two-step-solution/two-step-example>

****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 25

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

- Integer Operations (#1-4)
- Rounding (#5-7)
- Distributive Property (#8-10)
- Order of Operations (#11-13)

- Decimal Operations (#14-16)
- Fraction Operations (#17-19)
- Conversions (#20-22)
- Solving Equations (#23-25)