**Summer Pre-Requisite Skills Practice 3**   (Incoming grade 8 students)   **NAME**_____

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

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

| | |
|---|---|
| 1. | -63 - 14 = |
| 2. | -72 +(-81)= |
| 3. | 15 - (-234)= |
| 4. | 78 + (-49)= |

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


### Rounding

| | |
|---|---|
| 5. | Round 4.682 to the nearest hundredth. |
| 6. | Round 3094.7177 to the nearest thousandth. |
| 7. | Round 4.826 to the nearest hundredth. |

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


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### Distributive Property with Fractions

8.)                                9.)                               10.)

$\frac{2}{5}\left(x + \frac{2}{3}\right)$          $\frac{-3}{8}\left(x - \frac{7}{6}\right)$          $\frac{4}{3}\left(x - \frac{7}{8}\right)$

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

**Order of Operations**

Simplify:   11.)  $-6[4 - (-5 + 3)^2]$          12.) $(3 + 2)^2 \times 6 - 1$          13.) $2\frac{2}{5} \times 4\frac{1}{2} - 5^3 \times 3$

Need help?

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

14.) $8.9 \times 9.8$                    15.) $2.42 \times 5.5$                    16.) $2.2 / 4.55$

Need help?

**Multiplication and Division with Fractions**

17.)                          18.)                          19.)

$\frac{1}{8} \times 120 =$            $\frac{8}{10} \div \frac{4}{5} =$            $\frac{3}{7} \div 3 =$

Need help?

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

20.) $\dfrac{7}{40}$

21.) $\dfrac{71}{250}$

22.) $\dfrac{5}{18}$

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

**Solving Equations:  Solve for the indicated variable.**

23.)  $8n + 7 = 31$

24.)  $-10 = 10(k - 9)$

25.)  $\dfrac{m}{9} - 1 = -2$

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)