

Summer Pre-Requisite Skills Practice 3 (Incoming grade 7 students) **NAME** _____

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

Operations with Mixed Numbers

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

1.	$10\frac{2}{3} + 9\frac{7}{12} =$
2.	$4\frac{2}{7} - 1\frac{1}{3} =$
3.	$11\frac{1}{9} \times 6\frac{3}{4}$
4.	$5\frac{7}{8} \div 1\frac{9}{10}$

Need help? <https://learnzillion.com/lessonsets/216-add-and-subtract-fractions-with-unlike-denominators>
<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>

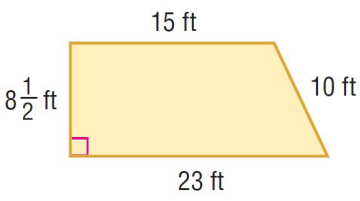
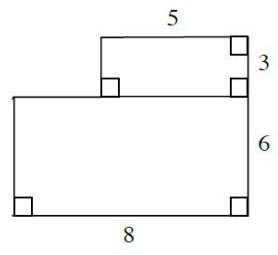
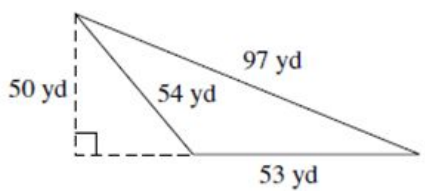
Rounding

5.	Round 4.682 to the nearest hundredth.
6.	Round 3094.717 to the nearest hundredth.
7.	Round 4.826 to the nearest hundredth.

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

Perimeter and Area

In exercises 8a through 8c, find both the area and perimeter for the given figures.

<p>8a.</p>  <p>Area: _____</p> <p>Perimeter: _____</p>	<p>8b.</p>  <p>Area: _____</p> <p>Perimeter: _____</p>	<p>8c.</p>  <p>Area: _____</p> <p>Perimeter: _____</p>
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Need help? <https://learnzillion.com/lessons/1164-find-the-perimeter-of-a-square-or-rectangle-by-adding-side-lengths>
<https://learnzillion.com/lessons/2535-find-the-area-of-a-rectangle-using-the-standard-formula>

Order of Operations

Simplify: 9.) $-8 \times [4 - (-5 + 3)]$

10.) $(3 + 2)^2 \times 6 - 1$

11.) $2\frac{2}{5} \times 4\frac{1}{2} - 2^3 + 3$

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

Multiply. Solve using mental math. Do not write out any work.

12.) $\frac{1}{5}$ of 40

13.) $\frac{2}{3}$ of 39

14.) $\frac{2}{9}$ of 18

15.) $\frac{5}{6}$ of 24

16.) $\frac{3}{5}$ of 40

17.) $\frac{5}{8}$ of 56

18.) $\frac{1}{2}$ of 86

19.) $\frac{2}{7}$ of 700

20.) $\frac{1}{15}$ of 60

Converting between Mixed Numbers and Improper Fractions

21.)

$$12\frac{1}{2}$$

22.)

$$7\frac{6}{11}$$

23.)

$$20\frac{13}{17}$$

Need help?

https://www.khanacademy.org/math/arithmetic/fractions/mixed_numbers/v/changing-an-improper-fraction-to-a-mixed-number
https://www.khanacademy.org/math/arithmetic/fractions/mixed_numbers/v/converting-mixed-numbers-to-improper-fractions

****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

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

- | | |
|---|---|
| <input type="checkbox"/> Multiplication of mixed numbers (#1) | <input type="checkbox"/> Perimeter (#8) |
| <input type="checkbox"/> Addition of mixed numbers (#2) | <input type="checkbox"/> Area (#8) |
| <input type="checkbox"/> Subtraction of mixed numbers (#3) | <input type="checkbox"/> Order of operations (#9-11) |
| <input type="checkbox"/> Division of mixed numbers (#4) | <input type="checkbox"/> Fractions mental math (#12-20) |
| <input type="checkbox"/> Rounding (#5-7) | <input type="checkbox"/> Converting mixed numbers/improper fractions (#21-23) |