

7th Grade
Nov 11, 2020

Please get out your homework from yesterday and a pen for checking.

Today we will:
-review HW
-begin classwork WS



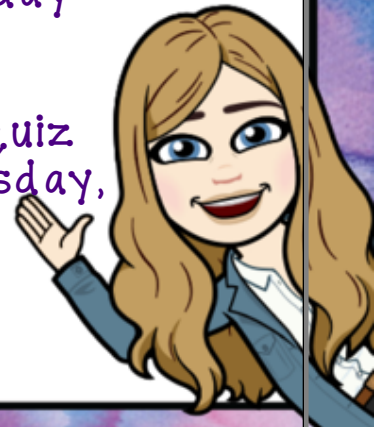
HOMWORK:

HW Skills WS if not done in class

Video notes

ALEKS-5 topics and 60 minutes due by 11:59pm Monday night

Benchmark quiz next Wednesday, Nov 18.



Name _____
 Unit _____ Lesson _____ Due Date _____
 PRACTICE

Lesson 1 Homework Practice
Ratios

Express each ratio as a fraction in simplest form.

1. 56 pencils to 64 erasers $\frac{7}{8}$

$$\frac{56}{64} \div \frac{8}{8} = \frac{7}{8}$$

2. 25 calculators to 20 students $\frac{5}{4}$

3. 36 cassettes to 60 CDs $\frac{3}{5}$

4. 6 pounds to 256 ounces $\frac{3}{8}$

16 ounces per pound

$\frac{96}{96}$
 Need same units!

5. 9 gallons to 48 quarts $\frac{3}{4}$

6. 24 feet to 30 yards $\frac{4}{15}$

4 quarts per gallon

$$\frac{36}{48} = \frac{3}{4}$$

3 feet per yard

$$\frac{24}{96}$$

Lesson 2 Homework Practice
Unit Rates

Express each rate as a unit rate. Round to the nearest tenth or nearest cent, if necessary.

****CALCULATORS OK****

1. \$4.60 for 5 cans of soup $\$4.60 \div 5$
\$0.92 per can
2. \$51 for a box of 75 tiles
\$0.68 per tile
3. 652 miles in 9 days
72.4 miles per day
4. 116 meters in 12 seconds
9.7 meters per second

5. Happy Times Summer Camp has 356 campers and 38 counselors. PlayDay Summer Camp has 219 campers and 28 counselors. Which camp has the lower rate of campers to counselors?

PlayDay Summer Camp

$$HT \ 356 \div 38 = 9.36 \dots$$

$$PD \ 219 \div 28 = 7.82 \dots \rightarrow 360$$

6. A roller coaster can accommodate ~~30~~ riders in 20 minutes. How many riders could ride in 90 minutes? ~~180~~

$$18 \text{ riders per min}$$

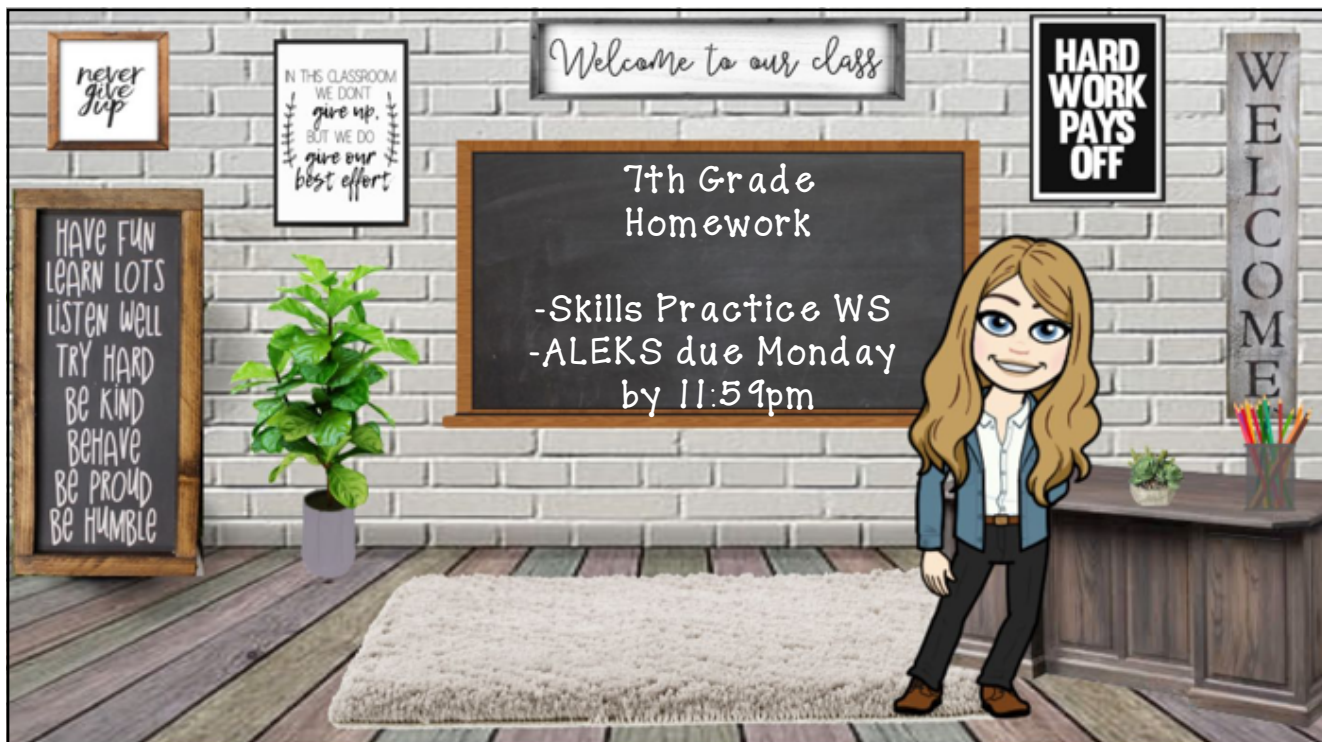
$$18 \times 90 = 1620$$

$$\text{or } 360 \times 4.5 = 1620$$

7. The Music Factory offers 45-minute music lessons for \$40. The Music Makers offers 60-minute lessons for \$55. Which is the better deal? **The Music Factory**

$$MF \ \$40 \div 45 = 50.89$$

$$MM \ \$55 \div 60 = 50.91$$



Name _____
 Unit _____ Lesson _____ Due Date _____
 PRACTICE

5-3. **Complex Fractions** are fractions within fractions. To simplify, treat the fraction as a division problem.

1. Do Keep, Change, Flip
2. Cross-cancel where you can.
3. Make sure your answer is in simplest form.

Simplify.

1. $\frac{1}{\frac{2}{5}}$ K C F
 $= \frac{1}{1} \div \frac{2}{5}$
 $= \frac{1}{1} \times \frac{5}{2} = \frac{5}{2} = 2\frac{1}{2}$

~~2. $\frac{3}{\frac{4}{5}}$~~

~~3. $\frac{4}{\frac{5}{6}}$~~

4. $\frac{2}{\frac{5}{4}}$

5. $\frac{5}{\frac{4}{9}}$
 " flip flip
 $= \frac{5}{1} \times \frac{9}{4} = \frac{45}{4}$

~~6. $\frac{6}{\frac{7}{8}}$~~

~~7. $\frac{7}{\frac{8}{9}}$~~

8. $\frac{8}{\frac{11}{4}}$

9. $\frac{9}{\frac{12}{5}}$
 $= \frac{9}{1} \times \frac{5}{12} = \frac{45}{12} = \frac{15}{4}$

~~10. $\frac{10}{\frac{13}{6}}$~~

11. $\frac{11}{\frac{14}{7}}$

12. $\frac{12}{\frac{15}{8}}$
 $= \frac{12}{1} \times \frac{8}{15} = \frac{96}{15} = \frac{32}{5}$

~~13. $\frac{13}{\frac{16}{7}}$~~

~~14. $\frac{14}{\frac{17}{8}}$~~

15. $\frac{15}{\frac{18}{9}}$

16. $\frac{16}{\frac{19}{10}}$

17. $\frac{17}{\frac{20}{11}}$

18. $\frac{18}{\frac{21}{12}}$

~~19. $\frac{19}{\frac{22}{13}}$~~

~~20. $\frac{20}{\frac{23}{14}}$~~

21. $\frac{21}{\frac{24}{15}}$

~~22. $\frac{22}{\frac{25}{16}}$~~

23. $\frac{1}{\frac{5}{7}}$ K C F
 $= \frac{1}{1} \div \frac{5}{7}$
 $= \frac{1}{1} \times \frac{7}{5} = \frac{7}{5}$

24. $\frac{2}{\frac{5}{4}}$
 $= \frac{2}{1} \times \frac{4}{5} = \frac{8}{5}$

25. $\frac{3}{\frac{8}{7}}$
 $= \frac{3}{1} \times \frac{7}{8} = \frac{21}{8}$

26. $\frac{6}{\frac{7}{15}}$
 $= \frac{6}{1} \times \frac{15}{7} = \frac{90}{7}$

27. $\frac{4}{\frac{9}{5}}$
 $= \frac{4}{1} \times \frac{5}{9} = \frac{20}{9}$

28. $\frac{5}{\frac{10}{9}}$
 $= \frac{5}{1} \times \frac{9}{10} = \frac{45}{10} = \frac{9}{2}$

29. $\frac{7}{\frac{14}{5}}$
 $= \frac{7}{1} \times \frac{5}{14} = \frac{35}{14} = \frac{5}{2}$

~~30. $\frac{8}{\frac{16}{7}}$~~

~~31. $\frac{9}{\frac{18}{8}}$~~

32. $\frac{2}{\frac{3}{24}}$

~~33. $\frac{3}{\frac{24}{25}}$~~

34. $\frac{2}{\frac{3}{24}}$
 $= \frac{2}{1} \times \frac{24}{3} = \frac{48}{3} = 16$

35. $\frac{2}{\frac{24}{25}}$
 $= \frac{2}{1} \times \frac{25}{24} = \frac{50}{24} = \frac{25}{12}$