## **Fraction Review Sheet**

Fractions are always reduced to their lowest form.

Add the following fractions.

$$1.\frac{4 \times 2}{4 \times 3} = \frac{11}{4 \times 3} =$$

$$2. \frac{2 \times 4}{11 \times 4} \frac{1 \times 4}{4 \times 6} = \frac{8}{44} + \frac{11}{44} = \frac{19}{44}$$

4. 
$$\frac{2^{\frac{1}{12}}}{3^{\frac{1}{12}}} + \frac{2^{\frac{2}{12}}}{4^{\frac{2}{12}}} = \frac{15}{12} + \frac{1}{12} + \frac{1}{12} = \frac{15}{12}$$

Practice adding mixed numbers

1. 
$$22\frac{1}{5} + 2\frac{6}{7} = \frac{111^{17}}{5^{17}} + \frac{10^{17}}{115} + \frac{10^{17}}{35} + \frac{10^{$$

3. 
$$5\frac{1}{12} + 4\frac{3}{5} = \frac{612}{12} + \frac{23}{5} + \frac{305}{5} + \frac{370}{60}$$

Practice adding mixed numbers

1. 
$$22\frac{1}{5} + 2\frac{6}{7} = \frac{11181}{581} + \frac{2085}{3500} + \frac{305}{35}$$

2.  $7\frac{10}{11} + 3\frac{1}{9} = \frac{1091}{99} + \frac{28}{99} + \frac{783}{99} + \frac{305}{99}$ 

3.  $5\frac{1}{12} + 4\frac{3}{5} = \frac{1215}{1215} + \frac{23^{44}}{544^{12}} + \frac{305}{544^{12}} + \frac{305}{54^{12}} + \frac{305}{54^{12}} + \frac{305}{54^{12}} + \frac{305}{54^{12}} + \frac{305}{54^{12}} + \frac{305}{54^{12}} + \frac{305}{54^{12}}$ 

Practice subtracting. 
$$269 - 97 \times 4$$
 $1883 - 388 - 7 \times 269 - 97 \times 4$ 
 $1.67 \frac{1}{4} - 136 \frac{6}{7} = 53\frac{11}{28}$ 
 $1.67 \frac{1}{4} - 136 \frac{6}{7} = 28$ 
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Practice subtracting. 
$$\frac{1883}{388} = \frac{388}{7 \times 44} = \frac{97 \times 4}{40} = \frac{86 \times 27 \times 5}{5 \times 6} = \frac{135}{8 \times 5} = \frac{135}{40} = \frac{553}{40} = \frac{135}{40} = \frac{553}{40} = \frac{135}{40} = \frac{553}{40} = \frac{135}{40} = \frac{135}{40}$$

Practice multiplying fractions.

1. 
$$\frac{2}{3} \times \frac{5}{8} = \frac{5}{12} \times \frac{10}{2}$$

$$3. \frac{5}{14} \times \frac{2}{60} = \frac{1}{84}$$

5. 
$$12\frac{1}{2} \times \frac{3}{7} = \frac{39}{14}$$

2. 
$$\frac{5}{8} \times \frac{7}{9} = \frac{35}{72}$$

4. 
$$\frac{8}{6} \times \frac{\cancel{3}}{\cancel{30}} = \frac{\cancel{12}}{\cancel{10}}$$
6.  $5\frac{1}{2} \times 6\frac{3}{5} = \frac{\cancel{303}}{\cancel{10}}$  or  $\cancel{303}$ 

6. 
$$5\frac{1}{2} \times 6\frac{3}{5} = \frac{363}{10}$$
 or  $3\frac{3}{10}$ 

Practice with dividing fractions.

1. 
$$\frac{18}{24} \div \frac{5}{6} = \frac{9}{10}$$
 $\frac{18}{24} \cdot \frac{1}{5} = \frac{108}{120}$ 
 $\frac{18}{30} \div \frac{2}{3} = \frac{9}{10}$ 
 $\frac{18}{30} \cdot \frac{3}{3} = \frac{9}{10}$ 
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 $\frac{19}{10} \cdot \frac{3}{3} = \frac{19}{10}$ 
 $\frac{11}{12} \cdot \frac{3}{4} = \frac{9}{36} \cdot \frac{9}{10} \cdot \frac{9}{36} \cdot \frac{9}{36}$ 
 $\frac{11}{12} \cdot \frac{3}{4} = \frac{9}{36} \cdot \frac{9}{10} \cdot \frac{9}{36} \cdot$ 

3. 
$$\frac{11}{12} \div \frac{3}{4} = \frac{44}{36}$$
  $\frac{11}{12} \cdot \frac{4}{3} = \frac{44}{36}$ 

$$5.12\frac{3}{4} \div \frac{1}{3} = \frac{153}{4} = \frac{38}{4} \times \frac{51}{4} \cdot \frac{3}{1} = \frac{153}{4} \quad 6.12 \div \frac{1}{2} = \frac{24}{1} \quad \frac{12}{1} \cdot \frac{2}{1}$$

7. 
$$\frac{125}{5} \div \frac{1}{2} = \frac{50}{5}$$

8.  $4\frac{2}{3} \div 2\frac{1}{4} = \frac{51}{21} = \frac{2^{2}}{21}$ 

9.  $2\frac{2}{5} \div \frac{1}{12} = \frac{144}{5} = \frac{34}{5}$ 

9. 
$$2\frac{2}{5} \div \frac{1}{12} = \frac{144}{5} = \frac{291}{5}$$

$$2. \frac{18}{30} \div \frac{2}{3} = \frac{9}{10} \frac{18}{30} \cdot \frac{3}{3}$$

4. 
$$\frac{76}{100} \div \frac{4}{5} = \frac{19}{20}$$

6. 
$$12 \div \frac{1}{2} = 24$$
  $\frac{12}{1} \cdot \frac{2}{1}$ 

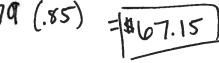
8. 
$$4\frac{2}{3} \div 2\frac{1}{4} = \frac{56}{27} = 2\frac{2}{27}$$

## Complete the table below using your knowledge of fractions, decimal and percent conversions.

Problem	Fraction	Decimal	Percent
1	<u>4</u> 5	0.80	80%
2.	375 = 3 1600 = 8	0.375	37.5%
3.	11 rc 20 4000	.55	55%
4.	7 x12 ( 975 8 m. 7000	0.875	87.5%
5.	72 18 100 as	0.72	72%
6.	13 65	0.65	45%
7.	975 39	0.975	97.5%
8.	11 10	1.10	110%
9.	105 100	1.05	105%
10.	10000 3000	0.0048	.46%
11.	112 - 25	1.12	112%
12,	35 x (17) 20x (100	1.75	175%

1. A basketball backboard set that sold for \$79 is discounted 15%. What is the sale price?

79 (.85) = 107.15

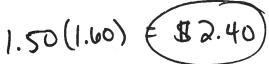


2. A parka that sold for \$65 is marked up to \$70.20. What is the percent of markup?

- 70.20 = 1.08
- 3. A shoe store marks up its merchandise by 8%. What was the selling price of a pair of shoes whose wholesale price is \$24.50?



4. A grocery store has a 60% markup on a can of soup. The can of soup costs the store \$1.50. What



5. Mr. Quick bought a new computer system. The regular price was \$1580, but he got a 15%

6. The regular price of a Space Invader game is \$52, but it is on sale. The discount is \$13. What

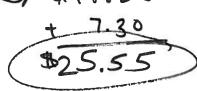
	7. A bicycle that usually sells for \$230 is on sale for 25% off. Find the sale price.
0	230 (.75) = \$172.50
d ?	8. A store sold a case of scented candles for \$17.85 that had been marked up 110%. What was the original price?  17.85/2.10  10% 71.79  10% 71.79  9. Marco buys a certain brand of shampoo from a supplier at \$7.25 per bottle. He sells it to
	his customers at a markup of 25%. What would the markup be?

10. What should Max charge for a package of paper plates in his store if he bought them for \$9.00 and wants to make a 75% profit?

wants to make a 75% profit?

(4) (75) = 180.75

11. The markup on a restaurant meal is 250%. A meal costs \$7.30 to produce. How much will the customer be charged before tax and tip?



\*\*12. Bob's bill for dinner at Surefire Steak House was \$45. In addition, he paid 5% of the bill in tax, and he left a tip for 15% of the bill (before tax). How much did Bob spend for tax and tip combined? How much did Bob spend in all?

Total: \$54.00