Math Summer Packet Reference Sheet (Outgoing 5th grade/Incoming 6th grade)

If you have questions on the following topics, please visit these websites for online video tutorials.

- Improper fractions to mixed numbers: https://www.khanacademy.org/math/arithmetic/fractions/mixed-numbers/v/changing-an-improper-fraction-to-a-mixed-number
- Mixed numbers to Improper fractions: https://www.khanacademy.org/math/in-sixth-grade-math/fractions-1/improper-mixed-fractions/v/mixed-numbers-and-improper-fractions
- Simplifying fractions: https://www.khanacademy.org/math/arithmetic/fraction-arithmetic/arith-review-visualizing-equiv-frac/v/equivalent-amount-of-pizza
- Adding and Subtracting fractions: https://www.khanacademy.org/math/in-seventh-grade-math/rational-numbers/copy-of-addition-subtraction-fractions/v/adding-and-subtracting-fractions
- Multiplying Fractions: https://www.khanacademy.org/math/pre-algebra/fractions-pre-alg/multiplying-fractions-pre-alg/v/multiplying-fractions
- Add Decimals: https://www.khanacademy.org/math/arithmetic/decimals/adding-decimals/v/adding-decimals-example-1
- Subtract Decimals: https://www.khanacademy.org/math/pre-algebra/decimals-pre-alg/adding-decimals-pre-alg/v/subtracting-decimals
- Perimeter and Area: https://www.khanacademy.org/math/geometry/hs-geo-foundations/hs-geo-area/v/perimeter-and-area-basics

Name : _____ Score : _____

Teacher : _____ Date : _____

Converting Improper Fractions to Mixed Numbers

1) $\frac{19}{5}$ = ____ 2) $\frac{13}{2}$ = ____ 3) $\frac{24}{5}$ = ____

4) $\frac{14}{4}$ = ____ 5) $\frac{23}{4}$ = ____ 6) $\frac{26}{10}$ = ____

7) $\frac{26}{4}$ = ____ 8) $\frac{7}{3}$ = ____ 9) $\frac{19}{3}$ = ____

10) $\frac{26}{4}$ = ____ 11) $\frac{11}{2}$ = ____ 12) $\frac{8}{3}$ = ____

13) $\frac{27}{10}$ = ____ 14) $\frac{29}{5}$ = ____ 15) $\frac{13}{2}$ = ____

Converting Mixed Numbers to Improper Fractions

1) $4\frac{1}{3}$ = ____ 2) $2\frac{1}{5}$ = ____ 3) $6\frac{4}{5}$ = ____

4) $9\frac{3}{5}$ = ____ 5) $6\frac{4}{5}$ = ____ 6) $9\frac{9}{10}$ = ____

7) $9\frac{1}{3}$ = ____ 8) $9\frac{1}{2}$ = ____ 9) $3\frac{1}{2}$ = ____

10) $7\frac{2}{5}$ = ____ 11) $2\frac{1}{4}$ = ____ 12) $8\frac{1}{3}$ = ____

13) $9\frac{1}{2}$ = ____ 14) $8\frac{4}{5}$ = ____ 15) $2\frac{1}{2}$ = ____

Reducing Fractions

Name:

Reduce each fraction as much as possible.

Ex) $\frac{10}{40} = \frac{1}{4}$

1) $\frac{8}{64} = \frac{\quad}{8}$

2) $\frac{40}{64} = \frac{5}{\quad}$

3) $\frac{50}{60} = \frac{5}{\quad}$

4) $\frac{18}{27} = \frac{2}{\quad}$

5) $\frac{3}{24} = \frac{\quad}{8}$

6) $\frac{8}{12} = \frac{2}{\quad}$

7) $\frac{30}{80} = \frac{\quad}{8}$

8) $\frac{8}{48} = \frac{\quad}{6}$

9) $\frac{40}{48} = \frac{5}{\quad}$

10) $\frac{16}{24} = \frac{2}{\quad}$

11) $\frac{24}{32} = \frac{3}{\quad}$

12) $\frac{21}{28} = \frac{\quad}{4}$

13) $\frac{21}{56} = \frac{\quad}{8}$

14) $\frac{9}{36} = \frac{\quad}{4}$

15) $\frac{6}{18} = \frac{1}{\quad}$

16) $\frac{3}{12} = \frac{\quad}{4}$

17) $\frac{5}{40} = \frac{\quad}{8}$

18) $\frac{35}{42} = \frac{5}{\quad}$

19) $\frac{6}{48} = \frac{1}{\quad}$

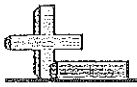
20) $\frac{20}{30} = \frac{2}{\quad}$

Answers

Ex. 1/4

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0



Adding & Subtracting Fractions

Name:

Solve each problem. Write the answer as a mixed number fraction (if possible).

1) $\frac{2}{5} - \frac{1}{3} =$

2) $\frac{4}{5} - \frac{1}{2} =$

3) $\frac{10}{12} - \frac{2}{3} =$

4) $\frac{1}{2} - \frac{1}{5} =$

5) $\frac{8}{10} - \frac{2}{4} =$

6) $\frac{4}{6} - \frac{1}{12} =$

7) $\frac{3}{6} + \frac{3}{8} =$

8) $\frac{10}{12} + \frac{1}{2} =$

9) $\frac{4}{5} + \frac{5}{12} =$

10) $\frac{5}{6} + \frac{6}{12} =$

11) $\frac{1}{3} + \frac{2}{6} =$

12) $\frac{7}{8} + \frac{8}{10} =$

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Name : _____ Score : _____

Teacher : _____ Date : _____

Multiplying Fractions with Cross Canceling

1) $\frac{2}{4} \times \frac{1}{5} =$

2) $\frac{3}{4} \times \frac{1}{5} =$

3) $\frac{4}{5} \times \frac{7}{10} =$

4) $\frac{3}{5} \times \frac{1}{3} =$

5) $\frac{2}{10} \times \frac{1}{3} =$

6) $\frac{2}{3} \times \frac{2}{4} =$

7) $\frac{3}{10} \times \frac{1}{2} =$

8) $\frac{1}{2} \times \frac{4}{10} =$

9) $\frac{1}{2} \times \frac{1}{3} =$

10) $\frac{6}{10} \times \frac{2}{3} =$

Adding and Subtracting Decimals

Name:

Solve each problem.

12.6	12.32	9.1	13.54	115.7
5.2	37.4	42.7	10.1	132.53

1) Jerry bought 6.95 lbs of cherry and lime jelly beans for his birthday party. If 1.75 lbs were cherry flavor, how many pounds were lime flavor?

2) Paige was measuring how much taller she got over two years. In the first year she grew 4.62 cm. In the second year she grew 7.7 cm. How much taller did she get altogether?

3) Vanessa downloaded two apps which were 17.73 kb total. If one app was 8.63 kb, how big was the other app?

4) Nancy was buying food for her birthday party. She bought a 52.93 oz bag of barbeque chips and a 79.6 oz bag of regular chips. How many ounces did she buy all together?

5) Tom was weighing the amount of candy he received for Halloween. If he received 8.30 kg and his brother received 1.8 kg, how much candy did they get all together?

6) John ate a snack with 80.79 total calories. If the chips he ate were 43.39 calories, how many calories were in the rest of his snack?

7) A computer programmer had two files with a total size of 93 gigabytes. If one of the files was 50.30 gigabytes, how big is the second file?

8) A weatherman was measuring the amount of rain two cities received over a week. City A received 3.74 inches while City B received 9.8 inches. How much rain did they get total?

9) During a science experiment, Mary found the mass of two rocks to be 41.4 grams and 74.3 grams. What is the total mass of these two rocks?

10) Ned and Sarah were running a relay race. The race was 22.01 kilometers total. If Ned ran 9.41 kilometers how far did Sarah run?

Answers

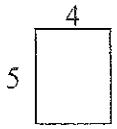
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

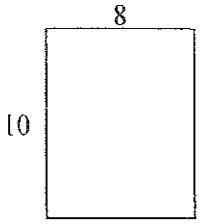
1-10	90	80	70	60	50	40	30	20	10	0

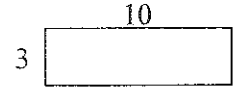
Finding Perimeter & Area

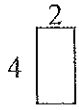
Name:

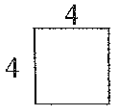
Find the perimeter and area of each figure. Each figure is in inches (in). Not to scale.

1) 

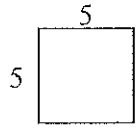
2) 

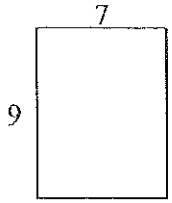
3) 

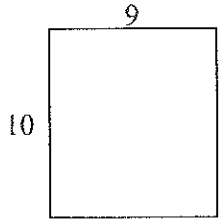
4) 

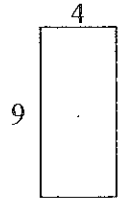
5) 

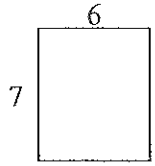
6) 

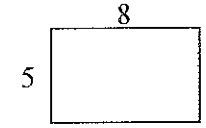
7) 

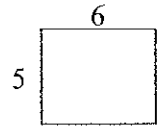
8) 

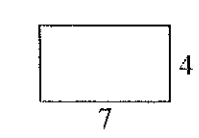
9) 

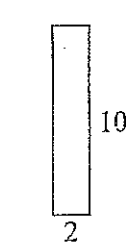
10) 

11) 

12) 

13) 

14) 

15) 

Answers

1. _____ _____
2. _____ _____
3. _____ _____
4. _____ _____
5. _____ _____
6. _____ _____
7. _____ _____
8. _____ _____
9. _____ _____
10. _____ _____
11. _____ _____
12. _____ _____
13. _____ _____
14. _____ _____
15. _____ _____

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					