

SUMMER

MATH

ASSIGNMENT



INCOMING

8TH

GRADE

CLASS OF 2028

Incoming 8TH GRADE CLASS for the school year 2023-24:

NO CALCULATORS!

This packet of math problems will be due on the 2nd day of classes (August 17, 2023). Some of it is a review and there might be some new concepts included. Do your best!

You will get credit for work completed.

KEEP IN MIND

You should attempt all problems in the packet to the best of your ability.

You are encouraged to spread the work out and do a little bit each week.

Show your work for problems, if stated in the directions. You will NOT get full credit if you don't. NO EXCEPTIONS.

Do NOT use any ink. PENCIL ONLY!

Use extra paper and staple it to the packet when needed.

Spend extra time reviewing sections you don't understand. Ask someone to help you understand difficult concepts.

Bring the completed packet to school the first day of classes - this is your first assignment of the new year. Additionally, some classes will have a quiz on the math packet.

Mrs. Hoggatt

HOGGATTEER KNIGHTS www.hoggatteerknights.com

@ Neosho Christian School www.neoshochristianschool.com

Great is our Lord and mighty in power; his understanding has no limit. Ps. 147:5

Subtract integers

1.	$3 - 2$	
2.	$3 - 3$	
3.	$3 - 4$	
4.	$3 - 5$	
5.	$3 - 6$	
6.	$3 - 9$	
7.	$3 - 10$	
8.	$3 - 20$	
9.	$3 - 80$	
10.	$3 - 100$	
11.	$3 - (-1)$	
12.	$3 - (-2)$	
13.	$3 - (-3)$	
14.	$3 - (-7)$	
15.	$3 - (-17)$	
16.	$3 - (-27)$	
17.	$3 - (-127)$	
18.	$13 - (-6)$	
19.	$24 - (-8)$	
20.	$5 - (-23)$	
21.	$61 - (-3)$	
22.	$58 - (-5)$	

23.	$(-8) - 5$	
24.	$(-8) - 7$	
25.	$(-8) - 9$	
26.	$(-15) - 9$	
27.	$(-35) - 9$	
28.	$(-22) - 22$	
29.	$(-27) - 27$	
30.	$(-14) - 21$	
31.	$(-22) - 72$	
32.	$(-311) - 611$	
33.	$(-345) - 654$	
34.	$(-2) - (-1)$	
35.	$(-2) - (-2)$	
36.	$(-2) - (-3)$	
37.	$(-2) - (-4)$	
38.	$(-2) - (-8)$	
39.	$(-20) - (-45)$	
40.	$(-24) - (-13)$	
41.	$(-13) - (-24)$	
42.	$(-5) - (-3)$	
43.	$(-3) - (-5)$	
44.	$(-1,034) - (-31)$	

Divide using fractions.

1.	$\frac{1}{2} \div 2 =$	
2.	$\frac{1}{5} \div 3 =$	
3.	$\frac{1}{5} \div 4 =$	
4.	$\frac{1}{5} \div 7 =$	
5.	$7 \div \frac{1}{5} =$	
6.	$6 \div \frac{1}{5} =$	
7.	$5 \div \frac{1}{5} =$	
8.	$3 \div \frac{1}{5} =$	
9.	$2 \div \frac{1}{2} =$	
10.	$3 \div \frac{1}{2} =$	
11.	$4 \div \frac{1}{2} =$	
12.	$7 \div \frac{1}{2} =$	
13.	$\frac{1}{2} \div 7 =$	
14.	$\frac{1}{4} \div 2 =$	
15.	$2 \div \frac{1}{4} =$	
16.	$\frac{1}{3} \div 2 =$	
17.	$2 \div \frac{1}{3} =$	
18.	$\frac{1}{2} \div 2 =$	
19.	$2 \div \frac{1}{2} =$	
20.	$4 \div \frac{1}{3} =$	
21.	$\frac{1}{3} \div 4 =$	
22.	$\frac{1}{3} \div 3 =$	

Calculate either
percent / fractions / decimals

23.	$\frac{6}{10}$ as a percent	
24.	$\frac{6}{20}$ as a percent	
25.	$\frac{6}{25}$ as a percent	
26.	$\frac{6}{50}$ as a percent	
27.	$\frac{6}{75}$ as a percent	
28.	$\frac{12}{75}$ as a percent	
29.	$\frac{24}{75}$ as a percent	
30.	64% as a fraction	
31.	60% as a fraction	
32.	56% as a fraction	
33.	28% as a fraction	
34.	14% as a fraction	
35.	9% as a decimal	
36.	90% as a decimal	
37.	99% as a decimal	
38.	99.9% as a decimal	
39.	9.9% as a decimal	
40.	0.9% as a decimal	
41.	$\frac{4}{9}$ as a percent	
42.	$\frac{5}{9}$ as a percent	
43.	$\frac{2}{3}$ as a percent	
44.	$\frac{1}{6}$ as a percent	

Show your Work!

Subtract fractions

1.	$\frac{2}{10} - \frac{1}{10} =$	
2.	$\frac{1}{5} - \frac{1}{10} =$	
3.	$\frac{2}{4} - \frac{1}{4} =$	
4.	$\frac{1}{2} - \frac{1}{4} =$	
5.	$\frac{5}{10} - \frac{2}{10} =$	
6.	$\frac{1}{2} - \frac{2}{10} =$	
7.	$\frac{1}{2} - \frac{4}{10} =$	
8.	$\frac{4}{10} - \frac{1}{10} =$	
9.	$\frac{2}{5} - \frac{1}{10} =$	
10.	$\frac{2}{5} - \frac{3}{10} =$	
11.	$\frac{6}{10} - \frac{3}{10} =$	
12.	$\frac{3}{5} - \frac{3}{10} =$	
13.	$\frac{3}{5} - \frac{5}{10} =$	
14.	$\frac{8}{10} - \frac{1}{10} =$	
15.	$\frac{4}{5} - \frac{1}{10} =$	
16.	$\frac{4}{5} - \frac{5}{10} =$	
17.	$\frac{4}{5} - \frac{5}{10} =$	
18.	$\frac{4}{5} - \frac{7}{10} =$	
19.	$\frac{2}{8} - \frac{1}{8} =$	
20.	$\frac{1}{4} - \frac{1}{8} =$	
21.	$\frac{6}{8} - \frac{1}{8} =$	
22.	$\frac{3}{4} - \frac{1}{8} =$	

Multiply fractions

23.	$\frac{3}{5} \times \frac{5}{4} =$	
24.	$\frac{4}{5} \times \frac{5}{3} =$	
25.	$\frac{1}{4} \times \frac{1}{4} =$	
26.	$\frac{1}{4} \times \frac{3}{4} =$	
27.	$\frac{3}{4} \times \frac{3}{4} =$	
28.	$\frac{3}{4} \times \frac{4}{3} =$	
29.	$\frac{3}{4} \times \frac{5}{4} =$	
30.	$\frac{3}{4} \times \frac{6}{4} =$	
31.	$\frac{4}{3} \times \frac{4}{6} =$	
32.	$\frac{2}{3} \times \frac{1}{5} =$	
33.	$\frac{2}{3} \times \frac{4}{5} =$	
34.	$\frac{2}{3} \times \frac{5}{5} =$	
35.	$\frac{2}{3} \times \frac{6}{5} =$	
36.	$\frac{1}{3} \times \frac{6}{5} =$	
37.	$\frac{1}{9} \times \frac{1}{9} =$	
38.	$\frac{1}{5} \times \frac{3}{8} =$	
39.	$\frac{3}{4} \times \frac{1}{6} =$	
40.	$\frac{2}{3} \times \frac{2}{3} =$	
41.	$\frac{3}{4} \times \frac{8}{8} =$	
42.	$\frac{2}{3} \times \frac{6}{3} =$	
43.	$\frac{6}{7} \times \frac{8}{9} =$	
44.	$\frac{7}{12} \times \frac{8}{7} =$	

Simplify!

Show your work!

Circle the equivalent fraction

Solve for X

1.	$\frac{5}{10} =$	$\frac{1}{2}$	$\frac{1}{3}$
2.	$\frac{5}{15} =$	$\frac{1}{2}$	$\frac{1}{3}$
3.	$\frac{5}{20} =$	$\frac{1}{2}$	$\frac{1}{4}$
4.	$\frac{2}{4} =$	$\frac{1}{2}$	$\frac{1}{3}$
5.	$\frac{2}{6} =$	$\frac{1}{2}$	$\frac{1}{3}$
6.	$\frac{2}{8} =$	$\frac{1}{2}$	$\frac{1}{4}$
7.	$\frac{3}{6} =$	$\frac{1}{2}$	$\frac{1}{3}$
8.	$\frac{3}{9} =$	$\frac{1}{2}$	$\frac{1}{3}$
9.	$\frac{3}{12} =$	$\frac{1}{4}$	$\frac{1}{3}$
10.	$\frac{4}{8} =$	$\frac{1}{2}$	$\frac{1}{3}$
11.	$\frac{4}{12} =$	$\frac{1}{2}$	$\frac{1}{3}$
12.	$\frac{4}{16} =$	$\frac{1}{4}$	$\frac{1}{3}$
13.	$\frac{4}{6} =$	$\frac{2}{3}$	$\frac{1}{2}$
14.	$\frac{7}{14} =$	$\frac{2}{3}$	$\frac{1}{2}$
15.	$\frac{7}{21} =$	$\frac{1}{5}$	$\frac{1}{3}$
16.	$\frac{7}{35} =$	$\frac{1}{5}$	$\frac{1}{3}$
17.	$\frac{6}{9} =$	$\frac{2}{3}$	$\frac{1}{3}$
18.	$\frac{6}{12} =$	$\frac{1}{2}$	$\frac{1}{3}$
19.	$\frac{6}{18} =$	$\frac{1}{6}$	$\frac{1}{3}$
20.	$\frac{6}{36} =$	$\frac{1}{6}$	$\frac{1}{3}$
21.	$\frac{8}{12} =$	$\frac{2}{3}$	$\frac{3}{4}$
22.	$\frac{8}{16} =$	$\frac{1}{2}$	$\frac{1}{3}$

23.	$\frac{1}{3} = \frac{4}{X}$	
24.	$\frac{2}{3} = \frac{8}{X}$	
25.	$\frac{8}{12} = \frac{2}{X}$	
26.	$\frac{12}{16} = \frac{X}{4}$	
27.	$\frac{3}{5} = \frac{15}{X}$	
28.	$\frac{4}{5} = \frac{X}{35}$	
29.	$\frac{18}{24} = \frac{X}{4}$	
30.	$\frac{24}{30} = \frac{4}{X}$	
31.	$\frac{5}{6} = \frac{X}{42}$	
32.	$\frac{56}{63} = \frac{8}{X}$	
33.	$\frac{64}{72} = \frac{X}{9}$	
34.	$\frac{5}{8} = \frac{40}{X}$	
35.	$\frac{5}{6} = \frac{X}{54}$	
36.	$\frac{45}{81} = \frac{5}{X}$	
37.	$\frac{6}{7} = \frac{X}{56}$	
38.	$\frac{36}{81} = \frac{4}{X}$	
39.	$\frac{8}{56} = \frac{X}{7}$	
40.	$\frac{35}{63} = \frac{X}{9}$	
41.	$\frac{1}{6} = \frac{X}{72}$	
42.	$\frac{3}{7} = \frac{X}{84}$	
43.	$\frac{48}{60} = \frac{X}{5}$	
44.	$\frac{72}{84} = \frac{6}{X}$	

Show your Work!

Fill in the multiplication table. Practice these. over the summer-
 pop quizzes will be used throughout the year over these facts.

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