

Summer Homework Packet

Incoming 7th Grade

Dear Parents/Guardians and Students,

Throughout the summer it is very important to review topics from previous mathematics grade levels. The problems in this packet are designed to help you review and work on skills to be a successful 8th grade math student. This packet will count as a homework grade and these topics will appear on a quiz at the beginning of the marking period (after a review is completed).

The summer homework packet is due Friday, September 7th. In order to receive full credit for the summer homework assignment, all work must be shown (homework does not have to be 100% correct to receive full credit; it needs to be completed to the best of your ability and on time).

Have a wonderful summer!

Name: _____

PLEASE WRITE ALL ANSWERS ON THE LINES AT THE RIGHT.
SHOW ALL WORK FOR EVERY PROBLEM.
USAGE OF A CALCULATOR IS NOT ALLOWED.

PART 1 – DECIMALS

Adding and Subtracting Decimals

*** <http://www.showme.com/sh/?h=1YdNTHs>

Find each sum or difference.

1) $46.2 - 34.09$

2) $9.06 - 7.2$

1. _____

2. _____

3) $8.037 + 7 + 12.4$

4) $15.65 - 8.7$

3. _____

4. _____

Multiplying Decimals

*** <http://www.showme.com/sh/?h=3DLIJyq>

Find each product.

5) $1.42 \cdot 7.2$

6) $(5.03)(2.8)$

5. _____

6. _____

7) $(0.006)(3.75)$

8) $(3.2)^2$

7. _____

8. _____

Dividing Decimals

*** <http://www.showme.com/sh/?h=EpWayjg>

Find each quotient.

9) $346.8 \div 5.1$

10) $0.32 \overline{)3968}$

9. _____

10. _____

11) $2814 \div 0.14$

12) $99 \div 0.09$

11. _____

12. _____

Write the answer for the following using the rules of operations with base of 10.

*** <http://www.showme.com/sh/?h=DXBj960>

13) $87.3 \times 1,000$

13. _____

14) $98.765 \times 10,000$

14. _____

15) $34.56 \div 10,000$

15. _____

16) $234.563 \div 100$

16. _____

PART 2 – FRACTIONS

Adding and Subtracting Mixed Numbers

*** <http://www.showme.com/sh/?h=VqHIIvg>

Find each sum or difference. Write it in simplest form.

17) $2\frac{2}{5} + 3\frac{4}{9}$

18) $7\frac{3}{4} + 11\frac{2}{3}$

17. _____

18. _____

19) $14\frac{8}{9} - 5\frac{1}{2}$

20) $23\frac{1}{4} - 7\frac{4}{5}$

19. _____

20. _____

Multiplying and Dividing Mixed Numbers

*** <http://www.showme.com/sh/?h=LysM6lM>

Find each product or quotient. Write it in simplest form.

21) $5 \cdot 1\frac{1}{7}$

22) $3\frac{3}{5} \cdot 2\frac{1}{12}$

21. _____

22. _____

23) $5\frac{5}{8} \div 5$

24) $8\frac{1}{3} \div 4\frac{4}{5}$

23. _____

24. _____

PART 3 – NUMBER SENSE

*** <http://www.showme.com/sh/?h=OiPlv28>

25) Write the prime factorization of 144.

26) Find the Greatest Common Factor (GCF) of 12 and 18 using prime factorization.

27) Find the Least Common Multiple (LCM) of 24 and 36 using prime factorization.

Read and answer the following questions carefully.

28) Round 8,956.456 to the hundredths place. 28. _____

29) Round 1,456.789 to the tenths place. 29. _____

30) Round 6,543.982 to the ones place. 30. _____

31) Order the following numbers from least to greatest. Rewrite the numbers in order.

0.8 0.5 0.85 0.58 0.508 0.805

32) Order the following numbers from greatest to least. Rewrite the numbers in order.

-2.3 -2 -1.7 -2.1 -1 -2.9

*** <http://www.showme.com/sh/?h=8A06BHc>

33) Is 1,347 divisible by 3? Explain why or why not without actually using division.

34) Is 18,728 divisible by 4? Explain why or why not without actually using division.

PART 4 – PLOTTING POINTS

*** <http://www.showme.com/sh/?h=KQ8cMhk>

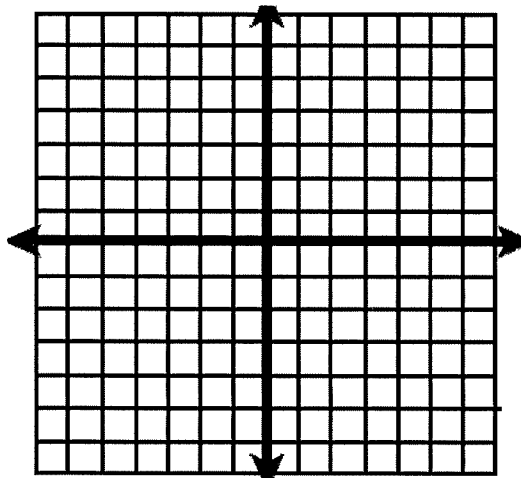
Plot the following points on the graph to the right. Label them.

35) A: (5, 2)

36) B: (-2, 6)

37) C: (3, 0)

38) D: (-1, -4)



PART 5 – 2D GEOMETRY

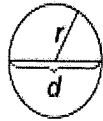
Find the Area and Perimeter of the following figures. Show work for the areas.

The following formulas might be helpful.

Circle

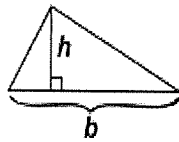
Area = πr^2

Circumference = $2\pi r$
= πd



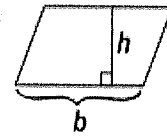
Triangle

Area = $\frac{1}{2}bh$

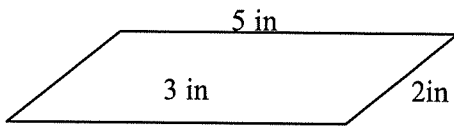


Parallelogram

Area = bh



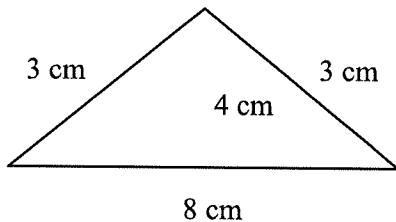
39)



Area _____

Perimeter _____

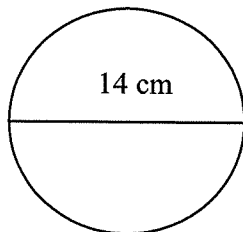
40)



Area _____

Perimeter _____

41)



Area _____

Circumference _____

PART 6 - EQUATIONS

*** <http://www.showme.com/sh/?h=uAWAxF2>

42) Is 7 a solution to the following equation? Show work. $4x - 12 = 16$

Solve the following equations. Show all work.

43) $x + 9 = 12$

44) $x - 14 = 3$

43) _____

44) _____

45) $5x = 30$

46) $\frac{x}{4} = 11$

45) _____

46) _____