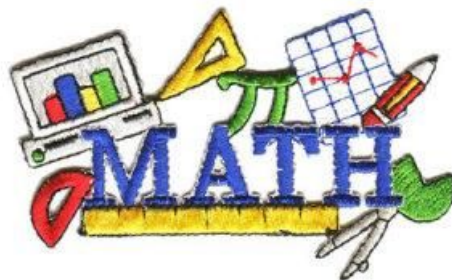


Student Name: \_\_\_\_\_ Date Completed: \_\_\_\_\_

## Berman Hebrew Academy

### SUMMER MATH PACKET FOR STUDENTS ENTERING GRADE 7



Dear Students,

Enclosed you will find math problems that will help you succeed in 7<sup>th</sup> grade.

This packet is due in math class on the second day of school,  
Wednesday, August 29.

You will be **quizzed** on its contents during the first week of school.

Please do all work on a separate piece of paper and number problems clearly. Please do not use a calculator and show all work.

Good luck !

Sincerely,

The Math Department

For #1-3 Refer to the number **12.406**

1. What is the value of the digit in the tenths place?

2. What digit is in the hundredths place?

3. What is the difference between this number and 12.4?

4.

Write  $>$ ,  $<$ , or  $=$  in each

(a)  $0.205$    $\frac{25}{1000}$

(b)  $4.10$    $4.1$

(c)  $3.1 - 0.46$    $2 + 0.06$

(d)  $0.89 \times 7$    $7$

(e)  $17.4 \div 5$    $\frac{3}{10}$

(f)  $3 - 0.12$    $2\frac{8}{9}$

5. Write 84 as a product of its prime factors using exponents.

6. Find the value of:  $2^3 \times 3^2 \times 5^2$

For #7-8: Find the value of the following using order of operations:

7.  $6 + 2 \cdot 24 \div 8 - 12$

8.  $12 + (10 + 2) \div (6 \cdot 2) - 3$

For #9-12, perform the indicated operation. Give an estimate, first.

9.  $17.02 \times 43 =$

10.  $4.8 \times 24.6 =$

Perform the indicated operation. Give an estimate, first.

11.  $11.25 \div 18$

12.  $89.96 \div 0.04$

13. Express as a percentage:

a. 0.43

b.  $\frac{6}{15}$

c. 215 out of 400

14.

Express in its simplest form.

(a)  $3\frac{5}{6} + 2\frac{9}{10}$

(b)  $5\frac{1}{9} - 2\frac{2}{3}$

(c)  $6 \times \frac{3}{4}$

(d)  $\frac{3}{8}$  of 20

(e)  $\frac{3}{10} \times \frac{5}{6}$

(f)  $\frac{9}{16} \div 6$

(g)  $6 + \frac{3}{5}$

(h)  $\frac{3}{4} + \frac{5}{8}$

15. Express 52% as a decimal and as a fraction in simplest form.

Decimal: \_\_\_\_\_

Fraction: \_\_\_\_\_

16. Express 16:20 in simplest form.

17. Express 8 months as a fraction of 2 years.

18. Express 75 cents as a fraction of \$2.00

19. Find the equivalent measures:

a.  $0.04 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

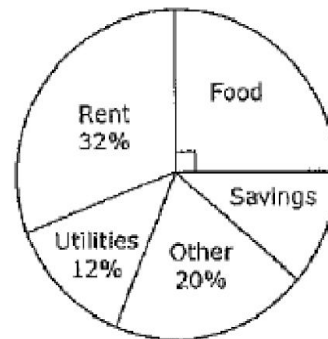
b.  $6.25 \text{ lb} = \underline{\hspace{1cm}} \text{ lb } \underline{\hspace{1cm}} \text{ oz}$

c.  $0.75 \text{ ft} = \underline{\hspace{2cm}} \text{ in.}$

20.

This pie chart represents the use of monthly income.

(a) What percentage of the monthly income is saved?



(b) If \$264 is saved, how much is the monthly income?

**WORD PROBLEMS-USE BAR MODELING**

21. There are 28 students in a class. 10 of them are boys. Find the ratio of the number of boys to the number of girls.

22. Josh had \$75.00. He spent \$15.00 on a book. What percentage of his money does he have left?

23. How many pieces of string, each  $\frac{1}{4}$  meter long, can be cut from a piece of string that is  $\frac{7}{8}$ m long? How many centimeters of string will be left over?

24. Mrs. Cohen spent \$48 at Shalom's. She spent  $\frac{1}{6}$  of the money on vegetables and  $\frac{1}{4}$  of the remainder on meat. The rest of the money was spent on 2 lbs. of fish. How much did 1 lb. of fish cost?

25. Jon, Jake, and Joe have 256 marbles altogether. The ratio of Jon's marbles to Jake's

marbles is 4:3. Jake has 14 more marbles than Joe. How many marbles does Jon have?

Only ONE More Page to go! 😊



## All Operations with Integers (A)

Use an integer strategy to find each answer.

$$(-5) + (-4) =$$

$$(-4) \times (-7) =$$

$$(+6) - (-2) =$$

$$(-3) + (+1) =$$

$$(-18) \div (-6) =$$

$$(-1) \times (+5) =$$

$$(-2) \times (-7) =$$

$$(+8) \times (+3) =$$

$$(+9) + (-3) =$$

$$(+3) \times (-1) =$$

$$(-4) - (-1) =$$

$$(+6) + (-5) =$$

$$(-3) + (+9) =$$

$$(-5) \times (+3) =$$

$$(-3) \div (+3) =$$

$$(-3) \times (+3) =$$

$$(-3) + (-6) =$$

$$(+8) + (-9) =$$

$$(-5) \times (+5) =$$

$$(-8) - (+6) =$$

$$(-7) - (-3) =$$

$$(+1) - (-9) =$$

$$(+8) \times (+4) =$$

$$(-4) + (-5) =$$

$$(+8) - (-2) =$$

$$(-9) + (-4) =$$

$$(+6) \times (+3) =$$

$$(-7) - (+2) =$$

$$(+2) \times (-4) =$$

$$(+3) + (-8) =$$