

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

## Berman Hebrew Academy

### SUMMER MATH PACKET FOR STUDENTS ENTERING GRADE 6



Dear Students,

Enclosed you will find math problems that will help you succeed in 6<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 #1-5, use the number: 653,401.872**

1. The digit 7 is in the \_\_\_\_\_ place.
2. What is the value of the digit 5 in this number?
3. What digit is in the thousands place?

4. Write this number in words:  
\_\_\_\_\_

Show what numbers you would use to estimate the value of the expression:

5.

$$2036 \times 7 \quad 1026 \times 9$$

6.  $3702 \div 9$   $2602 \div 6$

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

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

8.  $48 \div (10 - 4) \times 100$

For #9-12: Perform the indicated operation.

9.  $2304 \div 24$

10.  $2176 \div 68$

11.  $6 \overline{)96.4}$

12.  $4576 \div 2.4$

For #13-14, perform the indicated operation:

13.  $48 \times 24.6 =$

14.  $3.2 \times 64.02$

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

16. Express as a percentage:

a.  $0.47$

b.  $\frac{3}{5}$

17.

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

18. Express 85% as a decimal and as a fraction in simplest form.

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

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

**WORD PROBLEMS-USE BAR MODELING**

19. Rachel put away 900 books equally on 37 shelves. How many books were on each shelf?  
How many books were left over?

20. There are 28 students in a class.  $\frac{3}{7}$  of them wear glasses. How many students do NOT wear glasses?

21. Aaron saved twice as much money as Eliana. Yosef saved \$60 more than Eliana. If they saved \$600 all together, how much did Yosef save?

22. One day, a food truck sold  $\frac{2}{3}$  of all of its sandwiches before noon and  $\frac{1}{6}$  of all of its sandwiches after noon. The food truck sold 200 sandwiches altogether. How many sandwiches were left?

23. 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?