

Placement Test for *Math in Focus 3A*

- Fill in the blanks.
 - 5600 is _____ more than 4580.
 - 7203 is 100 more than _____.
 - The difference between 654 and 1000 is _____.
 - $3000 + \text{_____} + 25 = 3425$
 - The sum of 4681 and 500 is _____.
 - 5642 in expanded form is _____.
 - Six thousand seventeen in standard form is _____.
 - In 8263, the digit _____ is in the tens place, and its value is _____.
 - When 349 is divided by 5, the quotient is _____ and the remainder is _____.
- Complete the number pattern.
5576, 5676, 5776, _____, _____, _____
- Write these numbers in order, beginning with the smallest.
2935 9325 3295 5329

- Fill in the blanks.
 - Round 4230 to the nearest thousand. _____
 - Round 7986 to the nearest hundred. _____
 - Round 6675 to the nearest ten. _____

5. Use mental math to solve.

a. $62 + 38 =$ _____

b. $5244 + 9 =$ _____

c. $2636 + 4310 =$ _____

d. $2700 + 500 =$ _____

e. $90 - 39 =$ _____

f. $83 - 27 =$ _____

g. $1492 - 13 =$ _____

h. $6200 - 300 =$ _____

6. Estimate the value of $497 + 248$ by rounding each number to the nearest hundred. Then find the exact sum.

a. $497 + 248$ is about _____.

b. $497 + 248$ is exactly _____.

7. Estimate the value of $861 - 213$ by rounding each number to the nearest hundred. Then find the exact difference.

a. $861 - 213$ is about _____.

b. $861 - 213$ is exactly _____.

8. Which of the following is the best estimate for the value of 386×8 ? Circle your answer.

863

6300

3800

3200

9. Which of the following is the best expression to use in order to estimate the value of $5235 \div 5$? Circle your answer.

$5100 \div 5$

$5200 \div 5$

$5300 \div 5$

$5400 \div 5$

10. Solve these problems.

a.
$$\begin{array}{r} 7149 \\ + 251 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 4506 \\ + 3254 \\ \hline \end{array}$$

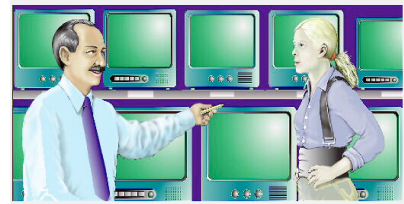
c.
$$\begin{array}{r} 1825 \\ + 7433 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 2749 \\ - 377 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 6953 \\ - 2690 \\ \hline \end{array}$$

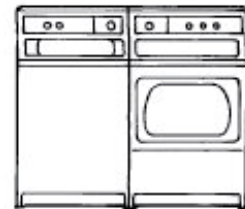
f.
$$\begin{array}{r} 5931 \\ - 1289 \\ \hline \end{array}$$

11. The difference between the cost of two televisions is \$242. If the higher price is \$981, how much does the other television cost?



The other television costs \$_____.

12. The washer costs \$1367. The dryer is \$421 less than the washer. Louise bought the washer and the dryer. How much did she pay?



She paid \$_____.

13. Write $<$, $>$, or $=$ in each \bigcirc .

a. $5708 \bigcirc 5617$

b. $3200 + 1450 \bigcirc 1500 \times 4$

c. $9 \times 0 \bigcirc 8 \times 0$

d. $25 \times 4 \times 32 \bigcirc 1600 \times 2$

14.

$$\heartsuit + \heartsuit + \heartsuit = 27$$

$$\spadesuit + \spadesuit + \spadesuit + \spadesuit = 32$$

Find the value of:

$$\heartsuit \times \spadesuit = \underline{\hspace{2cm}}$$

15. Use mental math to solve.

a. $7 \times 7 = \underline{\hspace{2cm}}$

b. $6 \times 8 = \underline{\hspace{2cm}}$

c. $9 \times 9 = \underline{\hspace{2cm}}$

d. $5 \times 7 = \underline{\hspace{2cm}}$

e. $36 \div 6 = \underline{\hspace{2cm}}$

f. $64 \div 8 = \underline{\hspace{2cm}}$

g. $6 \times 20 = \underline{\hspace{2cm}}$

h. $700 \div 5 = \underline{\hspace{2cm}}$

i. $420 \div 6 = \underline{\hspace{2cm}}$

j. $3500 \div 7 = \underline{\hspace{2cm}}$

k. $50 \times 8 \times 3 = \underline{\hspace{2cm}}$

l. $9 \times 4 \times 5 = \underline{\hspace{2cm}}$

16. Write +, \times , $-$, or \div in each \bigcirc .

a. $2800 \bigcirc 7 = 400$

b. $325 \bigcirc 2 = 650$

c. $88 \bigcirc 12 = 100$

d. $7 \times 8 = 65 \bigcirc 9$

17. Fill in the blanks.

a. $36 \div \underline{\hspace{1cm}} = 3 \times 2$

b. $0 \times 3 = 9 \times \underline{\hspace{1cm}}$

c. $5 \times \underline{\hspace{1cm}} = 1500$

d. $15 \times 20 \times 4 = 4 \times 25 \times \underline{\hspace{1cm}}$

18. Solve these problems.

a.
$$\begin{array}{r} 149 \\ \times 3 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 450 \\ \times 5 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 402 \\ \times 8 \\ \hline \end{array}$$

19. There are 48 cows on the farm. There are 4 times as many cows as pigs. How many more cows are there than pigs?



There are _____ more cows than pigs.

20. Mrs. Ramos had 340 pencils. She gave 9 pencils to each of the students in her class. She had 7 pencils left over. How many students does she have?



She has _____ students.

21. The restaurant had 590 glasses to move. The movers broke 15 of them. They packed the rest in boxes of 25. How many boxes of glasses were there?



There were _____ boxes of glasses.

22. Divide 12  into 3 groups. Circle the groups. Then fill in the blanks.



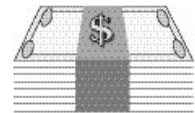
$12 \div \underline{\quad} = \underline{\quad}$

23. Gene weighs 45 lb. His sister weighs 20 lb less. Their mother's weight is 2 times their total weight. What is their mother's weight?



Their mother's weight is _____ lb.

24. Mr. Ling earns \$3200 a month. He spends \$475 on food, \$1500 on other things and saves the rest. How much does he save a month?



He saves \$ _____ a month.

25. Francine did a survey of 28 families living in her neighborhood to find the number of pets each family had. She wrote the results in the data box below. Complete the tally chart from the data.

| | | | |
|---|---|---|---|
| 2 | 3 | 2 | 1 |
| 1 | 2 | 0 | 4 |
| 3 | 1 | 2 | 2 |
| 0 | 3 | 3 | 4 |
| 2 | 2 | 1 | 1 |
| 3 | 0 | 3 | 2 |
| 1 | 2 | 1 | 2 |

| | | | | |
|---|---|---|---|---|
| | | | | |
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| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| X | X | X | X | X |
| 0 | 1 | 2 | 3 | 4 |

- What is the most likely number of pets? _____
- How many families had this number of pets? _____
- Is it likely that a family has 4 pets? _____
- What is the difference between the number of families that had 3 pets and the number that had 0 pets? _____

Math in Focus 3A Placement Test Answer Key

Point values are indicated in parentheses next to each item number; 100 points total. If student's score is 80 or more, consider starting with level 3B.

1. (11 points)
 - a. 1020
 - b. 7103
 - c. 346
 - d. 400
 - e. 5181
 - f. $5000 + 600 + 40 + 2$
 - g. 6017
 - h. 6; 60
 - i. 69; 4
2. (2 points)

5876, 5976, 6076
3. (2 points)

2935, 3295, 5329, 9325
4. (3 points)
 - a. 4000
 - b. 8000
 - c. 6680
5. (6 points)
 - a. 100
 - b. 5253
 - c. 6946
 - d. 3200
 - e. 51
 - f. 56
 - g. 1479
 - h. 5900
6. (2 points)
 - a. 700
 - b. 745
7. (2 points)
 - a. 600
 - b. 568
8. (2 points)

3200
9. (2 points)

$5200 \div 5$
10. (6 points)
 - a. 7400
 - b. 7760
 - c. 9258
 - d. 2372
 - e. 4263
 - f. 4642
11. (3 points)

The other television costs \$739.
12. (3 points)

She paid \$2313.
13. (4 points)
 - a. >
 - b. <
 - c. =
 - d. =
14. (2 points)

72
15. (12 points)
 - a. 49
 - b. 48
 - c. 81
 - d. 35
 - e. 6
 - f. 8
 - g. 120
 - h. 140
 - i. 70
 - j. 500
 - k. 1200
 - l. 180
16. (4 points)
 - a. \div
 - b. X
 - c. +
 - d. -
17. (4 points)
 - a. 6
 - b. 0
 - c. 300
 - d. 12
18. (3 points)
 - a. 447
 - b. 2250
 - c. 3216
19. (3 points)

There are 36 more cows than pigs.
20. (3 points)

She has 37 students.

21. (3 points)
There were 23 boxes of glasses.

22. (3 points)



$$12 \div 3 = 4$$

23. (3 points)
Their mother's weight is 140 lb.

24. (3 points)
He saves \$1225 a month.

25. (9 points)

Tally Chart

| | | | | |
|---|---|---|---|---|
| | | X | | |
| | | X | | |
| | | X | | |
| | X | X | | |
| | X | X | X | |
| | X | X | X | |
| | X | X | X | |
| X | X | X | X | |
| X | X | X | X | X |
| X | X | X | X | X |
| 0 | 1 | 2 | 3 | 4 |

- a. 2
- b. 10
- c. No
- d. 3