

Placement Test for *Math in Focus 3B*

1. Use mental math to solve.

a. $45 + 23 =$ _____

b. $57 - 28 =$ _____

c. $400 \times 7 =$ _____

d. $4200 \div 6 =$ _____

2. Fill in the blanks.

a. $6 \text{ m} - 2 \text{ m } 60 \text{ cm} =$ _____ m _____ cm

b. $2515 \text{ m} =$ _____ km _____ m

c. $4 \text{ kg } 250 \text{ g} - 2 \text{ kg } 500 \text{ g} =$ _____ kg _____ g

d. $5 \text{ L } 47 \text{ ml} =$ _____ ml.

e. $3 \text{ L } 500 \text{ ml} + 750 \text{ ml} =$ _____ L _____ ml

f. $7 \text{ h } 15 \text{ min} - 2 \text{ h } 5 \text{ min} =$ _____ h _____ min

g. $2 \text{ years } 11 \text{ months} =$ _____ months

h. $31 \text{ days} =$ _____ weeks _____ days

i. $7 \text{ yd } 1 \text{ ft} - 3 \text{ yd } 2 \text{ ft} =$ _____ yd _____ ft

j. $5 \text{ ft } 7 \text{ in} + 1 \text{ ft } 9 \text{ in} =$ _____ ft _____ in

k. $9 \text{ lb} - 3 \text{ lb } 12 \text{ oz} =$ _____ lb _____ oz

l. $16 \text{ gal } 2 \text{ qt} - 4 \text{ gal } 3 \text{ qt} =$ _____ gal _____ qt

3. Circle the larger fraction in each pair.

a. $\frac{3}{5}$ $\frac{3}{8}$

b. $\frac{4}{5}$ $\frac{5}{6}$

c. $\frac{1}{2}$ $\frac{3}{4}$

4. Find the missing numbers for the top or bottom of the fractions.

a. $\frac{3}{5} = \frac{\quad}{20} = \frac{6}{\quad}$

b. $\frac{4}{12} = \frac{\quad}{6} = \frac{1}{\quad}$

5. Lorenzo ate $\frac{1}{4}$ of a cake. Mike ate $\frac{1}{2}$ of the cake.



a. Who ate more cake? _____

b. How much cake was left? _____

6. Miguel, Siena, and Liza ate some cookies. Miguel and Siena each had $\frac{2}{5}$ of the cookies. What fraction of the cookies did Liza have?



Liza had _____ of the cookies.

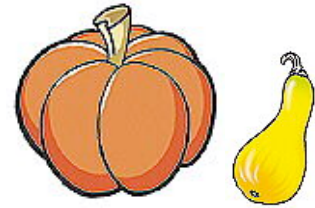
7. Ribbon A is 76 cm long. Ribbon B is half as long as ribbon A. Ribbon C is 12 cm shorter than ribbon B. How long is ribbon C?



A B C

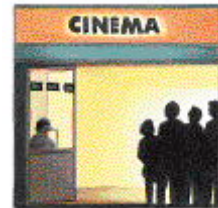
Ribbon C is _____ cm long.

8. The pumpkin is 6 times heavier than the squash. The squash weighs 450 g. How much does the pumpkin weigh?



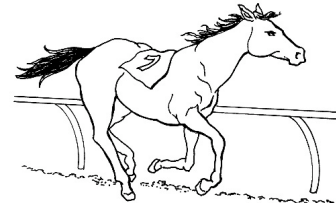
The pumpkin weighs _____ kg _____ g.

9. The movie was 2 hours 5 minutes long. It ended at 8:40 PM. At what time did the movie start?



The movie started at _____.

10. Ricochet ran around the block 4 times. The block is 164 m long and 75 m wide. How far did he run?



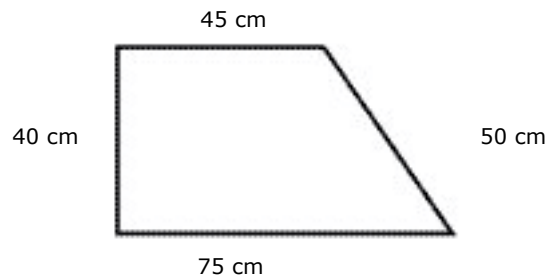
He ran _____ m.

11. Maria bought 100 balloons for the party. 7 balloons flew away. She tied the remaining balloons into bundles of 3. How many bundles did she make?



She made _____ bundles of balloons.

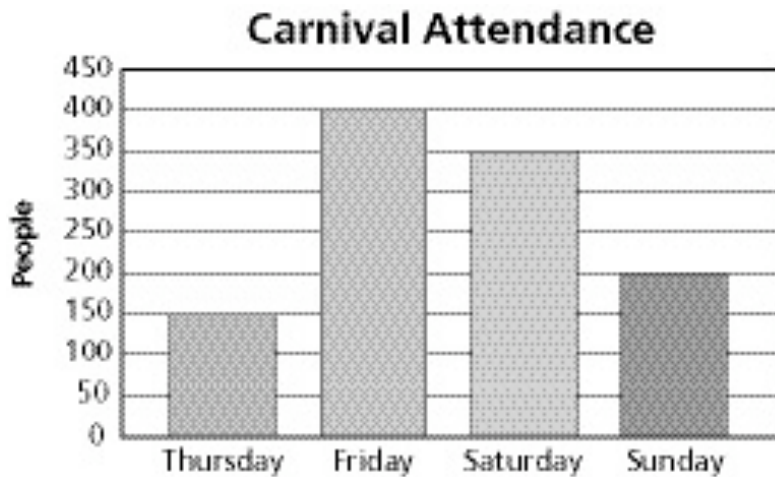
12. Look at the figure below.



Fill in the blanks.

- This figure has _____ right angles.
- The perimeter of this figure in centimeters is _____ cm.
- The perimeter is _____ m _____ cm.

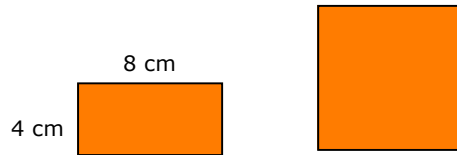
13. Study the bar graph.



Use the information in the graph to fill in the blanks.

- How many people attended the carnival on Thursday? _____
- How many more people attended the carnival on Friday than on Saturday? _____
- Half as many people attended on _____ than Friday.
- How many people attended over the four days? _____

14. The rectangle and the square have the same perimeter. The length of the rectangle is 8 cm and its height is 4 cm. Find the areas of the rectangle and the square.



- a. The area of the rectangle is _____.
- b. The area of the square is _____.
15. Mr. Chow now weighs 175 lb 12 oz. Last week he lost 1 lb 10 oz. The week before, he lost 2 lb 3 oz. How much did he weigh before he lost weight?



He used to weigh _____ lb _____ oz.

16. Scott is 3 feet 7 inches tall. His sister Bella is 47 inches tall. Who is taller, Scott or Bella? Circle your answer.



Scott Bella

Math in Focus 3B 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 4A.

1. (8 points)
 - a. 68
 - b. 29
 - c. 2800
 - d. 700
2. (24 points)
 - a. 3 m 40 cm
 - b. 2 km 515 m
 - c. 1 kg 750 g
 - d. 5047 ml
 - e. 4 L 250 ml
 - f. 5 h 10 min
 - g. 35 months
 - h. 4 weeks 3 days
 - i. 3 yd 2 ft
 - j. 7 ft 4 in
 - k. 5 lb 4 oz
 - l. 11 gal 3 qt
3. (6 points)
 - a. $\frac{3}{5}$
 - b. $\frac{5}{6}$
 - c. $\frac{3}{4}$
4. (8 points)
 - a. $\frac{3}{5} = \frac{12}{20} = \frac{6}{10}$
 - b. $\frac{4}{12} = \frac{2}{6} = \frac{1}{3}$
5. (4 points)
 - a. Mike
 - b. $\frac{1}{4}$
6. (4 points)

Liza had $\frac{1}{5}$ of the cookies.
7. (4 points)

Ribbon C is 26 cm long.
8. (4 points)

The pumpkin weighs 2 kg 700 g.
9. (4 points)

The movie started at 6:35 PM.
10. (4 points)

He ran 1,912 m.
11. (4 points)

She made 31 bundles of balloons.
12. (6 points)
 - a. This figure has 2 right angles.
 - b. The perimeter is 210 cm.
 - c. The perimeter is 2 m 10 cm.
13. (8 points)
 - a. 150
 - b. 50
 - c. Sunday
 - d. 1100
14. (4 points)
 - a. The area of the rectangle is 32 cm².
 - b. The area of the square is 36 cm².
15. (4 points)

He used to weigh 179 lb 9 oz.
16. (4 points)

Bella