

2016 Math 3B Final Examination

Name: _____ Score: _____

1. Find the value of each of the following. (2 points \times 8 = 16 points)

$97 + 20 =$

$58 + 34 =$

$80 - 39 =$

$95 - 69 =$

$400 \times 3 =$

$500 \times 8 =$

$3600 \div 4 =$

$240 \div 6 =$

2. Fill in the blanks. (2 points \times 14 = 28 points)

$5\text{ m } 50\text{ cm} = \text{_____ cm}$

$963\text{ cm} = \text{_____ m } \text{_____ cm}$

$2\text{ ft } 7\text{ in} = \text{_____ in}$

$3\text{ yd } 1\text{ ft} = \text{_____ ft}$

$2\text{ kg } 805\text{ g} = \text{_____ g}$

$3500\text{ g} = \text{_____ kg } \text{_____ g}$

$3\text{ lb } 5\text{ oz} = \text{_____ oz}$

$1\text{ lb } 4\text{ oz} = \text{_____ oz}$

$2\text{ h } 20\text{ min} = \text{_____ min}$

$100\text{ min} = \text{_____ h } \text{_____ min}$

$3\text{ min } 40\text{ s} = \text{_____ s}$

$160\text{ s} = \text{_____ min } \text{_____ s}$

$3\text{ weeks} = \text{_____ days}$

$1\text{ year } 4\text{ months} = \text{_____ months}$

3. Add or subtract. (2 points \times 5 = 10 points)

$1\text{ km } 450\text{ m} + 2\text{ km } 750\text{ m} = \text{_____ km } \text{_____ m}$

$2\text{ kg } 50\text{ g} + 3\text{ kg } 70\text{ g} = \text{_____ kg } \text{_____ g}$

$1\text{ l } 800\text{ mL} + 3\text{ l } 500\text{ mL} = \text{_____ l } \text{_____ mL}$

$3\text{ lb } 9\text{ oz} - 1\text{ lb } 4\text{ oz} = \text{_____ lb } \text{_____ oz}$

$3\text{ h } 50\text{ min} - 1\text{ h } 35\text{ min} = \text{_____ h } \text{_____ min}$

4. Word Problems (3 points \times 5 = 15 points)

(a) Kristi went to shopping mall at 10:15 a.m. She went back home 2h 30min later.

When did she go home? (am or pm)

(b) Mary is 1 m 50 cm tall. Lisa is 16 cm shorter than Mary. What is Lisa's height?

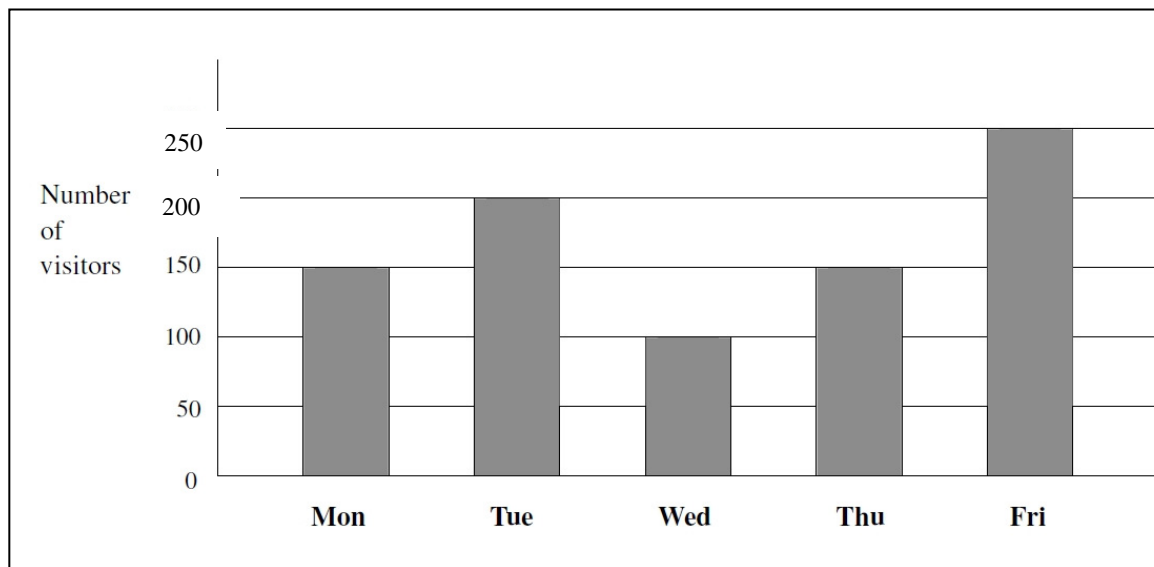
(c) The total weight of a pumpkin and a watermelon is 8 kg 400 g. If a pumpkin is 5 kg 950g, what's the weight of the watermelon?

(d) A restaurant is open from 11:00 am to 9:30 pm every day. How long does the restaurant open a day?

(e) An art lesson started at 5:30 p.m. It lasted 45 minutes. When did the lesson end?

5. Bar Graph Problems (2 points \times 5 = 10 points)

This bar graph shows the number of people who visited a book fair from Monday to Friday.



Use the graph to answer the following questions.

- (a) How many people visited the book fair on Tuesday?
- (b) How many more people visited the book fair on Friday than on Thursday?
- (c) On which day was the number of visitors the smallest?
- (d) On which day were there as many visitors as on Monday?
- (e) How many people came to the book fair from Monday to Friday altogether?

6. Arrange the fractions in order. Begin with the smallest. (2 points \times 3 = 6 points)

(a) $\frac{1}{5}$, $\frac{1}{7}$, $\frac{1}{3}$ _____

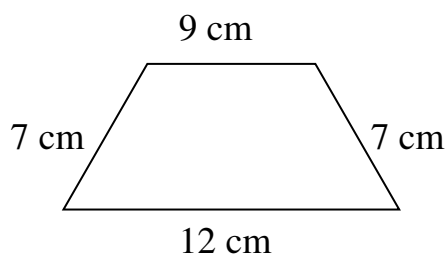
(b) $\frac{5}{8}$, $\frac{7}{8}$, $\frac{3}{8}$ _____

(c) $\frac{2}{3}$, $\frac{1}{2}$, $\frac{5}{6}$ _____

7. Find the perimeter and/or the area of the following figures: (2 points \times 6 = 12 points)

(a)

Perimeter = _____ cm

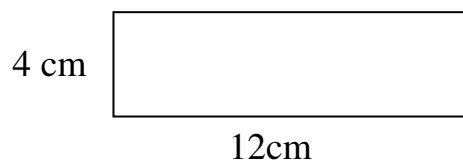


(b)

The length of the rectangle is 12cm. Its width is 4 cm.

Perimeter = _____ cm

Area = _____ cm^2

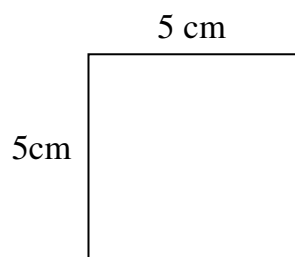


(c)


Each side of the square is 5 cm long.


Perimeter = _____ cm

Area = _____ cm^2

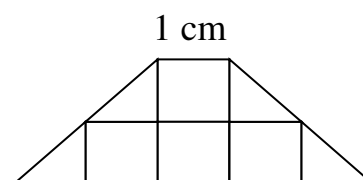


(d)

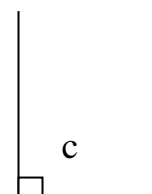
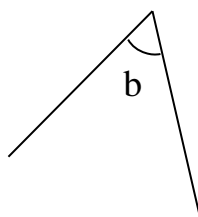
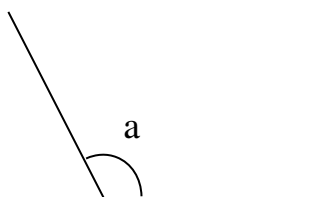
The area of each  is 1 cm^2 .

The area of each  is $\frac{1}{2} \text{ cm}^2$

The total area of the figure = _____ cm^2



8. Which one is a right angle? (3 points)



Angle _____ is a right angle.