2015 Math 3B Final Examination

Name: _____ Score: _____

1. Complete the following number patterns. (3 points×3= 9 points)

(a) 4098, 4198, _____, 4398, 4498

(b) 6803, _____, 6783, 6773, 6763

(c) _____, 5695, 5595, 5495, 5395

2. Fill in the blanks. (2 points×12=24 points)

4m 5 cm = _____ cm

963 cm = _____ m _____ cm

2 ft 7 in = _____ in

4 yd 1 ft= _____ ft

2 kg 805g = _____ g

3599 g = _____ kg _____ g

2h 10 min = _____ min

100 min = _____ h _____ min

3 min 40s = _____ s

150s = _____ min _____ s

3 weeks = _____ days

2 years 4 months = _____ months

3. Add or subtract. (3 points×5=15 points)

2 km 450 m + 1 km 850 m= _____ km _____ m

2kg 50g + 4kg 70g = _____ kg _____ g

1*l*800 *ml* +3*l*350 *ml*= _____ *l*_____ *ml*

3 lb 9 oz −1 lb 14 oz=_____lb _____oz

3h 50 min − 1h 35 min = _____ h _____ min

4. Word Problems (3 points×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)

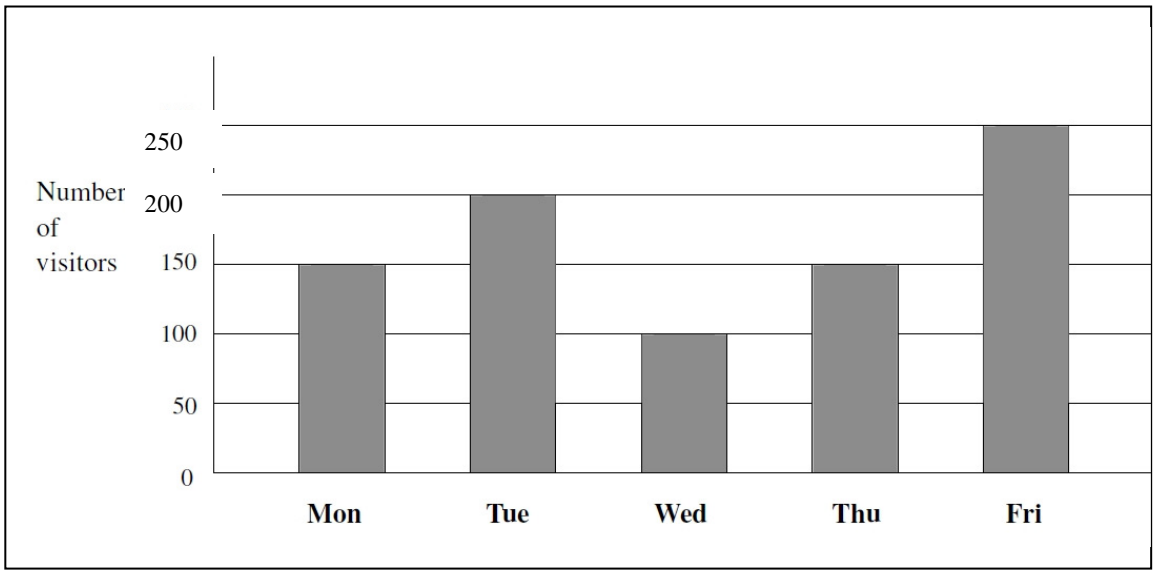
(b) Mary is 1 m 60 cm tall. Lisa is 16 cm shorter than Mary. What is Lisa's height?

(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 10:00 am to 9:30 pm every day. How long does the restaurant open a day?

(e) An art lesson started at 5:40 p.m. It lasted 45 minutes. When did the lesson end?

5. ***Bar Graph Problems*** (2 points×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. (3 points×3＝9 points)

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

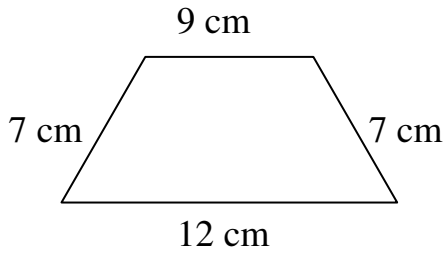
(b) $\frac{5}{8}$, $\frac{7}{8}$, $\frac{3}{8}$ _____

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

7. Find the perimeter and/or the area of each of the following figures: (14 points)

(a)

Perimeter ＝_____ cm

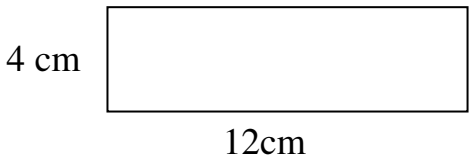


(b)

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

Perimeter ＝_____ cm

Area ＝_____ cm²

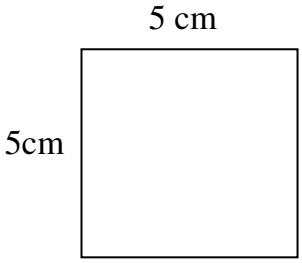


(c)

Each side of the square is 5 cm long.

Perimeter ＝_____ cm

Area ＝_____ cm²

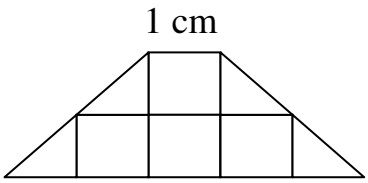


(d)

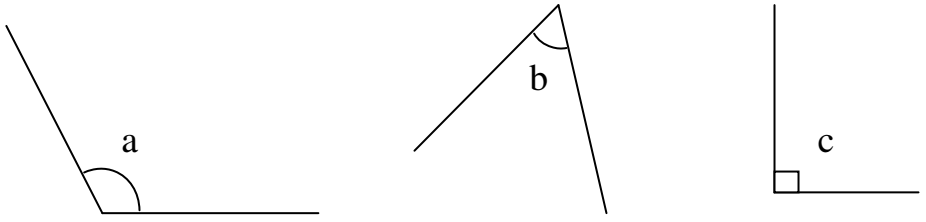
The area of each  is 1 cm² .

The area of each  is $\frac{1}{2}$ cm²

The total area of the figure＝_____ cm²



8. Which one is a right angle? (4 points)



Angle _____ is a right angle.