

Attainment Test I (5A Mathematics)

Name :

Date :

Class : ()

Mark : /48

Time limit : 30 minutes

Section A: MC Questions (28 marks)

Choose the correct answer. Write down the letter preceding selected answer in box.

1. In the number 254 781, how many times of the value of '8' is the value of '4'?

- A. 500
- B. 200
- C. 50
- D. 2

2. At least how much should be added to 98546 to give a 6-digit number?

- A. 1444
- B. 1454
- C. 1464
- D. 1554

3. Company A donated \$86500 last year. That was half of its donation this year. What is the donation of the company this year when corrected to the nearest ten thousand?

- A. \$160 000
- B. \$170 000
- C. \$174 000
- D. \$180 000

4. Which of the following numbers is between $\frac{4}{9}$ and $\frac{7}{6}$?

- A. $\frac{1}{3}$
- B. $\frac{2}{5}$
- C. $\frac{9}{10}$
- D. $1\frac{1}{5}$

5. Which fraction below is closest to 1?

- A. $\frac{11}{12}$
- B. $1\frac{1}{6}$
- C. $1\frac{2}{3}$
- D. $\frac{19}{24}$

6. There was $1\frac{2}{5}$ L of honey. $\frac{3}{4}$ L was used to make honey chicken wings. How much honey was left?

- A. $\frac{3}{4}$ L
- B. $\frac{13}{20}$ L
- C. $\frac{1}{2}$ L
- D. $\frac{3}{10}$ L

7. Wendy has $1\frac{1}{10}$ kg of lemons. That is $\frac{3}{4}$ kg lighter than the apples she has. How much fruits does she have?

- A. $\frac{7}{20}$ kg
- B. $\frac{19}{20}$ kg
- C. $1\frac{17}{20}$ kg
- D. $2\frac{19}{20}$ kg

8. There were $14\frac{3}{8}$ kg and $19\frac{2}{5}$ kg of pears in Bags E and F respectively. Extra $4\frac{1}{2}$ kg of pears are put into Bag E. What is the difference in weight between Bags E and F?

- A. $5\frac{1}{40}$ kg
- B. $3\frac{7}{20}$ kg
- C. $1\frac{13}{40}$ kg
- D. $\frac{21}{40}$ kg

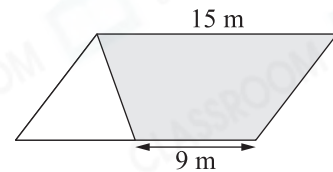
9. Ben had a roll of rope of $3\frac{4}{5}$ m long. He bought another roll of rope of $1\frac{1}{5}$ m long after using $3\frac{1}{4}$ m. How long is his rope now?

- A. $1\frac{1}{6}$ m
- B. $1\frac{1}{4}$ m
- C. $1\frac{1}{2}$ m
- D. $1\frac{3}{4}$ m

10. A triangle is cut from a rectangle of 18 cm long and 10 cm wide. What is the largest possible area of this triangle?

- A. 90 cm^2
- B. 160 cm^2
- C. 180 cm^2
- D. 204 cm^2

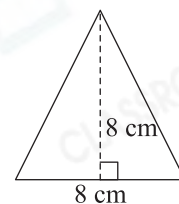
11.



The above figure is a parallelogram. The area of the white part is 24 m^2 . What is the area of the shaded part?

- A. 48 m^2
- B. 64 m^2
- C. 96 m^2
- D. 108 m^2

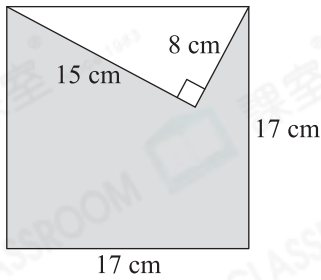
12.



A parallelogram is composed of some isosceles triangles shown above. What is the smallest possible area of it?

- A. 32 cm^2
- B. 64 cm^2
- C. 96 cm^2
- D. 128 cm^2

13.

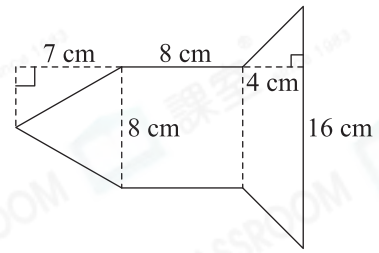


What is the area of the shaded part in the above figure?

- A. 169 cm^2
- B. 219 cm^2
- C. 229 cm^2
- D. 349 cm^2



14.



What is its area of the above rocket figure?

- A. 140 cm^2
- B. 144 cm^2
- C. 164 cm^2
- D. 168 cm^2

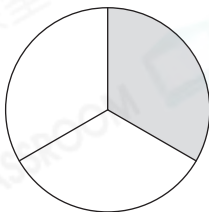


Part B: Short answer and conventional questions (20 marks)

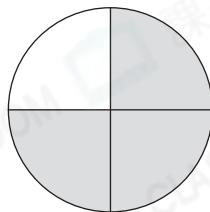
Unless otherwise specified, working must be shown when answering this part.

15. Alice bought 3 pizzas of the same size. Then each pizza was divided into equal parts in different ways as shown below.

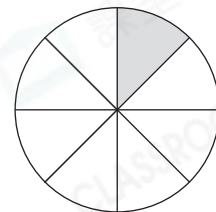
Seafood pizza



Chicken pizza



Vegetable pizza



(a) Alice ate the shaded part of the pizzas shown in above figures. How many pizzas did Alice eat? (Given the answer only) [2 marks]

Answer: _____ pizzas

(b) The original price of the pizza was \$108 each. The restaurant is now offering a discount of 'buy 2 and get the 3rd one with $\$59\frac{4}{5}$ '. How much should Alice pay? (Give the answer only) [2 marks]

Answer: \$ _____

16. Amy completed a marathon in $2\frac{1}{4}$ hours, which was $\frac{1}{12}$ hour less than Nick. The completion time of Jay was $\frac{1}{20}$ hour less than that of Nick.

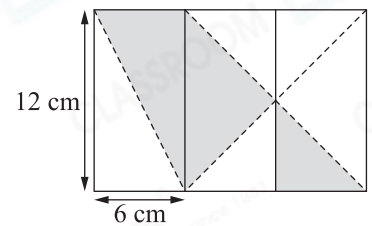
(a) How long did Nick take to complete the marathon? (Give the answer only) [2 marks]

Answer: _____ hours

(b) What was the difference in hours between Amy's and Jay's completion time? [4 marks]

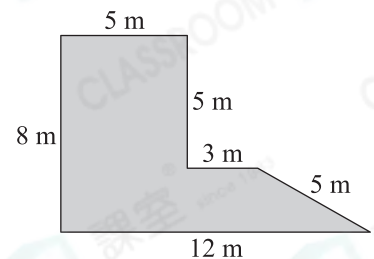


17. The figure on the right is composed of 3 identical rectangles. What is the area of the shaded part? [4 marks]



18. The layout plan of a park is shown on the figure on the right.

(a) What is the area of the park? [4 marks]



(b) A fence will be built around the park. The cost of fence is \$59 per metre. How much is the fence? (Give the answer only) [2 marks]

Answer: \$ _____

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