



Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2013
MATHEMATICS
PAPER 1 (BOOKLET A)
PRIMARY FIVE

Name: _____ () Class: Primary 5 ____

Date: 10 May 2013

Duration of Booklet A & B: 50 min

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 8 printed pages.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Shade your answer on the Optical Answer Sheet (OAS) provided.
5. You are not allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each.
Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the
Optical Answer Sheet (OAS). (20 marks)

1. In the number 1 389 472, the digit ____ is in the hundred thousands place.

- 1) 9
- 2) 8
- 3) 3
- 4) 4

2. The price of an apartment is \$620 000 when rounded off to the nearest \$10 000. Which of the following could be the original price of the apartment?

- 1) 614 499
- 2) 619 445
- 3) 625 000
- 4) 625 499

3. Express 32 seconds as a fraction of 2 minutes.

- 1) $\frac{1}{16}$
- 2) $\frac{1}{8}$
- 3) $\frac{4}{25}$
- 4) $\frac{4}{15}$

4. The breadth of a rectangle is $\frac{2}{3}$ as long as its length. Find the perimeter of the rectangle if the breadth is 18 cm long.

- 1) 12 cm
- 2) 45 cm
- 3) 60 cm
- 4) 90 cm

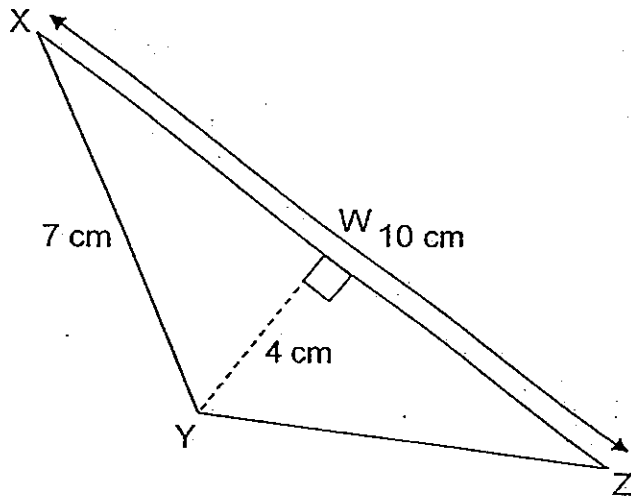
5. At present, Peter and Nikhil are 9 and 13 years old respectively. What will be the ratio of Peter's age to Nikhil's age be in 5 years' time?

- 1) 3 : 7
- 2) 7 : 9
- 3) 13 : 14
- 4) 9 : 18

6. Find the value of $102 - 24 \div 6 + 7$.

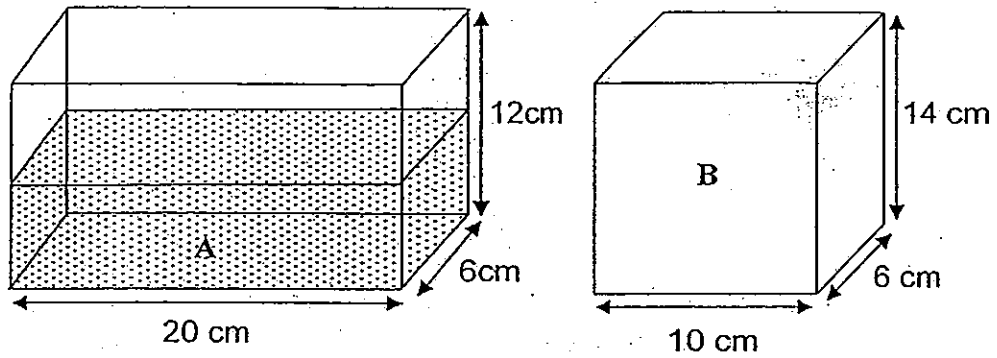
- 1) 6
- 2) 20
- 3) 91
- 4) 105

7. In the triangle below, $XY = 7$ cm, $XZ = 10$ cm and $WY = 4$ cm. Find the area of triangle XYZ .



- (1) 14 cm^2
- (2) 20 cm^2
- (3) 28 cm^2
- (4) 40 cm^2

8. Equal amount of water was poured into 2 empty tanks A and B as shown below. If tank A is half-filled, what was the height of the water level in tank B?



- 1) 6 cm
 - 2) 7 cm
 - 3) 12 cm
 - 4) 14 cm
9. Joshua bought 12 apples at 3 for \$1.00 at the first stall. At the second stall, he bought 8 apples at 4 for \$1.50. Find the total cost of the apples bought.

- 1) \$3.00
- 2) \$6.00
- 3) \$7.00
- 4) \$9.00

10. Julie's mother bought 5 kg of rice. She cooked 200 g of rice each day. How many days did the bag of rice last?

- 1) 25
- 2) 40
- 3) 250
- 4) 1 000

11. John is 21 years older than Jane. If Jane is $\frac{4}{7}$ of John's age, find their total age.

- 1) 28
- 2) 33
- 3) 49
- 4) 77

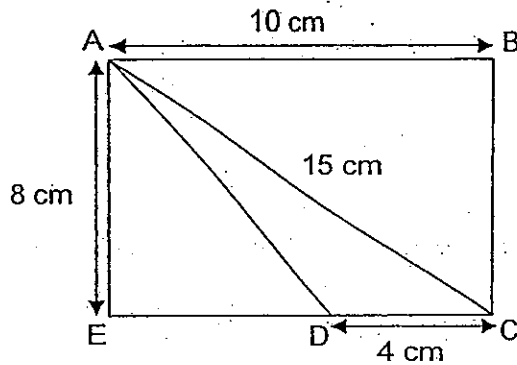
12. The perimeter of a badminton court is 32 m. If the ratio of its breadth to its length is 1 : 3, what is the area of the badminton court?

- 1) 12 m²
- 2) 24 m²
- 3) 48 m²
- 4) 96 m²

13. Joe and Kiren shared a sum of money in the ratio of 4 : 3. After receiving \$30 each from their mother, the ratio becomes 14 : 11. Find the amount of money Joe had at first.

- 1) \$30
- 2) \$60
- 3) \$180
- 4) \$375

14. ABCE is a rectangle, find the area of triangle ACD.



- 1) 16 cm^2
- 2) 30 cm^2
- 3) 32 cm^2
- 4) 60 cm^2

15. Aaron has \$14 more than Victor. Aaron has twice as much money as Gideon. The three children have \$86 altogether. How much money does Victor have?

- 1) \$ 26
- 2) \$ 29
- 3) \$ 43
- 4) \$ 50



Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2013
MATHEMATICS
PAPER 1 (BOOKLET B)
PRIMARY FIVE

Name: _____ () Class: Primary 5 ____

Date: 10 May 2013

Duration of Paper Booklet A & B: 50 min

Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 8 printed pages.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are not allowed to use a calculator.

Section	Maximum Marks	Marks Obtained
Paper 1 Booklet A. Multiple-Choice Questions	20	
Paper 1 Booklet B. Short Answers: Part 1	10	
Paper 1 Booklet B. Short Answers: Part 2	10	
Total Marks	40	

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary. (10 marks)

16. Write six million, thirty thousand and forty-two in numerals.

Answer: _____

17. What is the value of $\frac{5}{9} + \frac{5}{6}$? Express your answer as a mixed number.

Answer: _____

18. Complete the number pattern below.

450 572, 450 072, 449 472, ?, 447972

Answer: _____

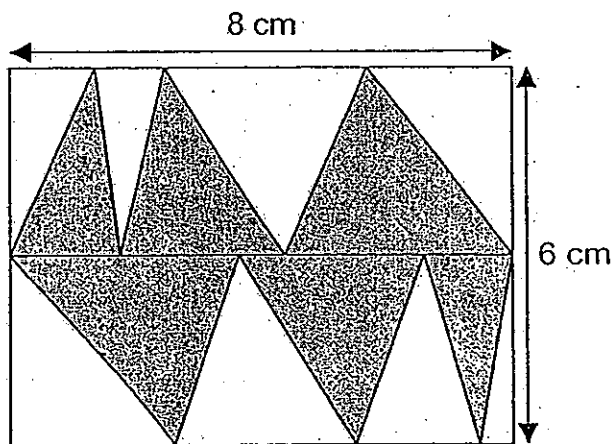
19. Jane, Peter and Sam shared some paper clips in the ratio 6 : 4 : 9. Sam had 72 ~~marbles~~ *paper clips*. How many more paper clips did Jane have than Peter?

Answer: _____

20. There were 25 drivers and 125 mechanics in a driving championship. What fraction of the people in the championship were drivers? (Give your answer in its simplest form)

Answer: _____

21. The diagram below, not drawn to scale, shows a rectangle with a length of 8 cm and breadth of 6 cm. Find the total shaded area.



Answer: _____ cm^2

22. Mr Boon had 100 watermelons. He sold 32 of them at \$4 each and the remaining watermelons at \$6 each. How much money did he receive from selling all the watermelons?

Answer: \$ _____

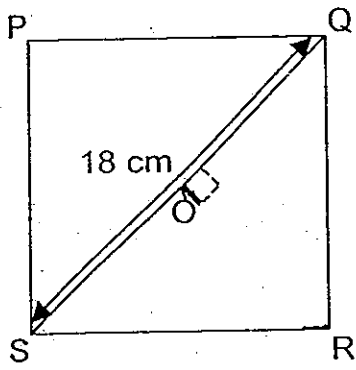
23. James had twice as many chocolate cookies as William. After James bought 12 and William bought 30 chocolate cookies, they had an equal number of chocolate cookies. How many chocolate cookies did James have in the end?

Answer: _____

24. Peter ate $\frac{3}{8}$ of a cake and gave the rest equally to 10 friends. What fraction of the cake did each friend get?

Answer: _____

25. In the figure below, PQRS is a square. The length of QS is 18 cm and O is the centre of the square. Find the area of triangle QRS.



Answer: _____ cm^2

Questions 26 to 30 carry 2 marks each. Show all mathematical statements clearly in the space below each question and write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary. (10 marks)

26. The ratio of the number of red beads to the number of blue beads is 5 : 7. The ratio of the number of blue beads to the number of green beads is 2 : 5. If there are 70 green beads, how many red beads are there?

Answer: _____

27. Betty has \$46 less than Raphael. Howin has \$248 more than the total amount that Betty and Raphael have. Howin has \$532 more than Betty. How much money has Howin?

Answer: \$ _____

28. Figure X shows a rectangular cardboard 45 cm by 32 cm. What is the maximum number of right-angled triangles (as shown in Figure Y) that can be cut from it?

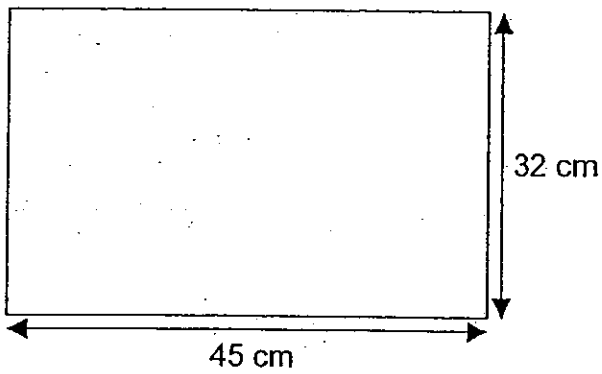


Figure X

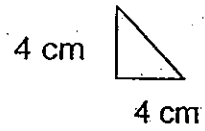


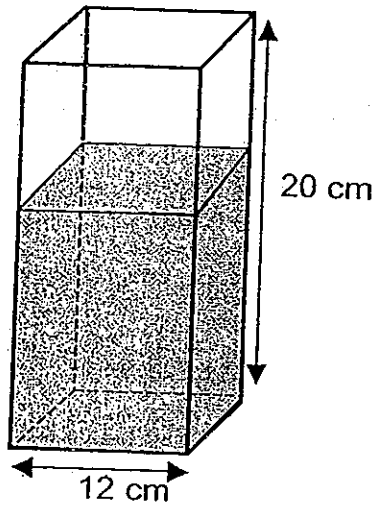
Figure Y

Answer: _____

29. Correction tapes were sold at \$2 each at a bookshop. Ringo bought $\frac{1}{4}$ of the correction tapes sold at the bookshop. He gave the cashier \$50 and was given \$24 in change. How many correction tapes were left in the shop?

Answer: _____

30. A square based container of length 12 cm has a height of 20 cm. If it is $\frac{2}{3}$ filled with water, find the volume of water in the container in litres.



Answer: _____



Anglo-Chinese School (Primary)
MID-YEAR EXAMINATION 2013
MATHEMATICS
PAPER 2
PRIMARY FIVE

Name: _____ ()

Class: Primary 5 _____

Date: 10 May 2013

Duration of Paper 2: 1h 40 min

Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 15 printed pages.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are allowed to use a calculator.

Section	Maximum Marks	Marks Obtained
Paper 2 Section B. Short Answers: Part 2	10	
Paper 2 Section C. Problem Sums	50	
Total Marks	60	

Questions 1 to 5 carry 2 marks each. Show your mathematical statements clearly in the space provided for each question and write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary. (10 marks)

1. Peter spent $\frac{2}{5}$ of his money on some clothes. He spent $\frac{1}{2}$ of the remainder on some shoes. If he had \$75 left, how much did Peter have at first?

Answer: \$ _____

2. Mike spent $\frac{3}{8}$ of his money on a watch which cost \$45. If he had bought a jacket instead, he would have spent $\frac{1}{3}$ of his money. How much did the jacket cost?

Answer: \$ _____

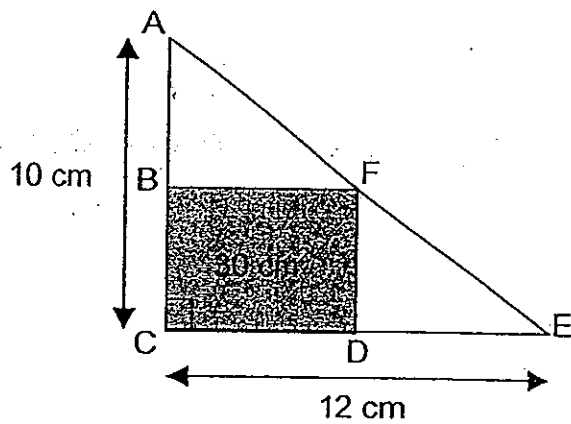
3. The ratio of the number of Richman's cards to the number of Elijah's cards was $2 : 5$. After Richman gave $\frac{1}{4}$ of his cards to Elijah, he was left with 24 ^{cards} stamps. How many cards did Elijah have in the end?

Answer: _____

4. Ken had some strawberries in a carton. When the strawberries are packed into boxes of 10, there are 6 strawberries leftover. When the strawberries are put into boxes of 8, there are 4 strawberries leftover. What is the smallest possible number of strawberries in the carton?

Answer: _____

5. In the figure below, ACE is a right-angled triangle. BCDF is a rectangle with area 30 cm^2 . What fraction of the figure is unshaded?



Answer: _____

For questions 6 to 18, show your steps clearly in the space provided for each question and write your answers in the spaces provided.

For questions which require units, give your answers in the units stated.

The number of marks available is shown in brackets [] at the end of each question or part-question. (50 marks)

6. Leroy and Jane had 152 curry puffs altogether. After Leroy gave away 20 of his curry puffs and Jane gave away $\frac{1}{6}$ of her curry puffs, they had the same number of curry puffs left. How many curry puffs did Leroy have in the beginning?

Answer: _____

7. Sherman is now 8 years old and his mother is 44 years old. In how many years time will Sherman be $\frac{2}{5}$ as old as his mother?

Answer: _____ [3]

8. In a school funfair, each boy was given 5 tickets while each girl was given 4 tickets. The number of boys was $\frac{1}{5}$ of the number of girls and the total number of tickets given out was 800. How many girls were there at the funfair?

Answer: _____ (3)

9. Daisy bought 4 similar caps and 3 similar T-shirts for \$120. If she bought 3 similar caps and 4 similar T-shirts, she would pay \$5 more. What was the cost of 1 cap?

Answer: _____ [3]

10. A value meal consists of a cheeseburger, a cup of corn and a packet of milk. The cheeseburger costs \$1.80 more than the cup of corn. The cup of corn costs \$0.70 more than the packet of milk. The total cost of 5 sets of the value meal is \$35.50.

(a) Find the cost of a cup of corn.

(b) Find the cost of 5 cheeseburgers.

Answer: (a) _____ [2]

(b) _____ [1]

11. Sally has some coins in her coin bank. There are twice as many fifty-cent coins as twenty-cent coins. How many fifty-cent coins are there in the coin bank if all the coins in the coin bank add up to \$96?

Answer: _____ [4]

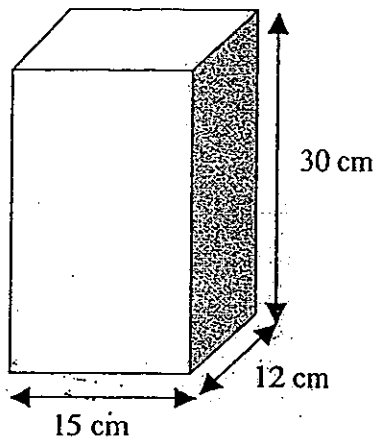
12. The number of erasers Jay had to the number of erasers Ray had was $7 : 5$. After Ray gave away 40 erasers, the ratio of the number of erasers Jay had to the number of erasers Ray had become $3 : 1$. How many erasers did both of them have altogether in the end?

Answer : _____ [4]

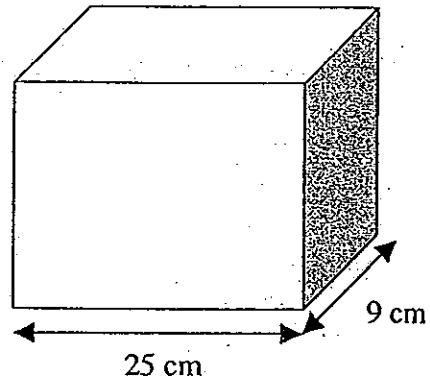
13. At an exhibition, $\frac{2}{7}$ of the visitors were children. The ratio of the number of men to the number of women was 3 : 7. There were 120 more women than children. What is the total number of visitors to the exhibition?

Answer : _____ [4]

14. Container A measuring 15 cm by 12 cm by 30 cm is filled with water to the brim. Container B is an empty rectangular container with base 25 cm by 9 cm. Water is then poured from container A into container B until the water level in both containers is the same. Find the height of water in container B. (Give your answer correct to 1 decimal place.)



Container A



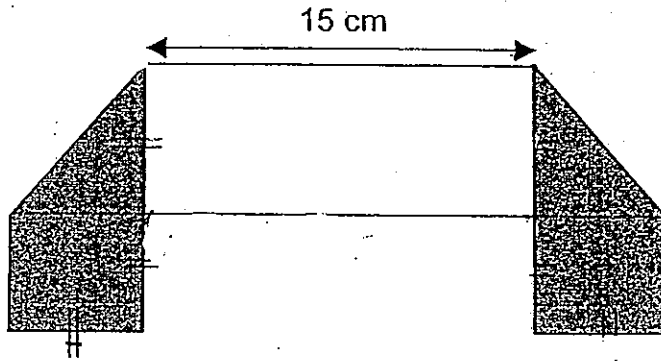
Container B

Answer: _____ [4]

15. A rectangular piece of paper is folded to form the shape below. The perimeter of the piece of paper is 80 cm.

(a) Find the width of the piece of paper

(b) Find the total area of the shaded parts.



Answer: a) _____ 2]

b) _____ 2]

16. Charles, Dawn, Esther and Francis collect stamps. Charles has 80 stamps and Dawn has 160 more stamps than Francis. The number of stamps that Dawn has is $\frac{1}{2}$ the total number of stamps that Charles, Esther and Francis have. The number of stamps that Esther has is $\frac{3}{4}$ the total number of stamps that Charles, Dawn and Francis have. How many stamps does Francis have?

Answer: _____ [5]

17. John was sitting for a Mathematics test which consisted of some questions. In the first 20 minutes, he had completed $\frac{1}{4}$ of the test. In the next hour, he had completed another 33 questions and the ratio of the number of questions that were answered to that were unanswered became 4 : 1. How many questions were there in the test?

Answer: _____ [5]

18. A farmer had the same number of sheep, ducks and cows at first. After 75 cows, some sheep and ducks were sold, there were 170 animals left. There were twice as many sheep as ducks left. The number of cows left was 30 fewer than the number of sheep left.

a) How many ducks were left?

b) How many animals were there at first?

Answer: a) _____ [3]

b) _____ [2]

End-of-Paper



ANSWER SHEET

EXAM PAPER 2013

SCHOOL : ACS PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHE
TERM : SA1

Booklet A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
3	2	4	4	2	4	2	3	3	1	4	3	3	1	1

16. 6030042

17. $1\frac{7}{18}$

18. 448772

19. 16

20. $\frac{1}{6}$

21. 24

22. 536

23. 48

24. $\frac{1}{16}$

25. 81

26. 770

27. 176

28. 176

29. 39

30. 1920

Paper 2

1. $75 \div 3 = 25$
 $25 \times 10 = 250$

2. $45 \div 9 = 5$
 $5 \times 8 = 40$

3. R:E

$$2:5$$

$$24 \div 3 = 8$$

$$8 \times 11 = 88$$

4. 10: 10, 20, 30, 40,

$$+6: 16, 26, 36, 46$$

$$8: 8, 24, 30,$$

$$+4: 12, 20, 28, 36$$

Ans: 36

5. $\frac{1}{2} \times 10 \times 12 = 60$

$$60 - 30 = 30$$

$$30 / 60 = \frac{1}{2}$$

6. $152 - 20 = 132$

$$6 + 5 = 11$$

$$132 \div 11 = 12$$

$$12 \times 5 = 60$$

$$60 + 20 = 80$$

7. $3u - 44 - 8 = 36$

$$1u - 12$$

$$12 \times 2 = 24$$

$$24 - 8 = 16$$

8. $5u \times 4 = 20$

$$1u \times 5 = 5$$

$$20 + 5 = 25$$

$$25u - 800$$

$$1u - 32$$

$$5u - 160$$

9. $4C + 3T = 120$

$$3C + 4T = 125$$

$$7C + 7T = 245$$

$$1C + 1T = 35$$

$$3C + 3T = 105$$

$$1C = 15$$

10. A. $35.5 \div 5 = 7.10$

$0.7 \times 2 = 1.4$

$1.4 + 1.8 = 3.2$

$7.1 - 3.2 = 3.9$

$3.9 \div 3 = 1.30$

$1.3 + 0.7 = 2.0$

B. $2 + 1.8 = 3.80$

$3.80 \times 5 = 19$

11. $2 \times 50 = 100$

$100 + 20 = 120$

$9600 \div 120 = 80$

$80 \times 100 = 8000$

$8000 \div 50 = 160$

12. J:R

7:5

21:15

3:1

21:7

8u --- 40

1u --- 5

28u --- 140

13. M : W : C

3 : 7 : 4

3u --- 120

1u --- 40

14u --- 560

14. 180:225

4:5

9u --- $15 \times 12 \times 30 = 5400$

1u --- 600

A: 4u --- 2400

$$\begin{aligned} \text{B: } 5u & \text{ --- } 3000 \\ 2400 \div 180 & = 13.3\text{cm} \\ 3000 \div 225 & = 13.3\text{cm} \end{aligned}$$

15. A. Perimeter 80cm --- $30 \div 10$

$$10u \text{ --- } 80 - 30 = 50$$

$$1u \text{ --- } 5$$

B. 1 square --- $5 \times 5 = 25$

2 square --- 50

1 triangle --- $\frac{1}{2} \times 5 \times 5 = 12.5$

2 triangle --- 25

Total: $50 + 25 = 75$

16. D : C+E+F

$$1 : 2$$

$$E : C+D+F$$

$$3 : 4$$

$$D : C+D+F$$

$$3 \times 3 : 4 \times 3$$

$$9 : 12$$

Total --- $21u$

$$2u \text{ --- } 80$$

$$1u \text{ --- } 40$$

$$7u - 160 = 120$$

17. $4 \times 5 = 20$

$$1 \times 5 = 5$$

$$4 \times 4 = 16$$

$$16 - 5 = 11$$

$$11u \text{ --- } 33$$

$$1u \text{ --- } 3$$

$$20u \text{ --- } 60$$

18. A. $170 + 30 = 200$

$$2 + 1 + 2 = 5$$

$$200 \div 5 = 40$$

B. $2 \times 40 - 30 = 50$

$$50 + 75 = 125$$

$$125 \times 3 = 375$$