NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2016

PRIMARY 4

MATHEMATICS

DURATION: 1 HOUR 45 MINUTES

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Section A

Questions 1 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(Total: 30 marks)

1. The digit 6 in 63 470 has the same value as _____

(1) 6 × 10
(2) 6 × 100
(3) 6 × 1000
(4) 6 × 10 000

2. The following numbers are arranged in descending order.

A , 17 898 , 8929 , 879

A is a 5-digit odd number. What is the value of A?

(1) 17 791
(2) 18 642
(3) 27 424
(4) 71 889

3. What is the missing number in the number pattern below?

13 350 , 13 375 , 13 400 , _____ , 13 450

(1) 13 410
(2) 13 415
(3) 13 425
(4) 13 435

4. Which of the following numbers are common multiples of 4 and 6?

(1) 1 and 2
(2) 12 and 18
(3) 12 and 30
(4) 36 and 60

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5. What is the product of 51 and 706?

(1) 757
(2) 4236
(3) 36 006
(4) 36 066

6. How many ninths are there in $8\frac{2}{9}$?

(1) 16
(2)
(3) 72
(4)

7. Study the multiplication algorithm below.

$$\begin{array}{r} \square 845 \\ \times \qquad 9 \\ \hline 61605 \end{array}$$

Find the missing digit in the box.

(1) 6
(2) 2
(3) 7
(4) 9

8. There were 167 passengers at a bus terminal. There were only 5 buses available. An equal number of passengers boarded each bus. How many passengers could not board any of the available buses?

(1) 1
(2) 2
(3) 33
(4) 165

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9. Mary had 63 stickers in her sticker album. She gave $\frac{3}{7}$ of her stickers to her sister. How many stickers did Mary give to her sister?

(1) 36
(2) 27
(3) 3
(4) 9

10. Ahmad used $\frac{1}{3}$ of his savings on stationary and $\frac{2}{9}$ of his savings on a book. What fraction of his savings was left?

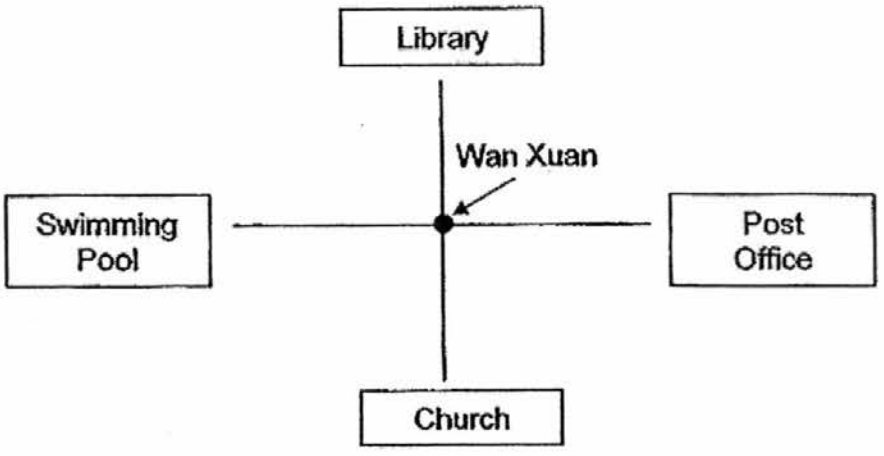
(1) $\frac{1}{9}$
(2) $\frac{4}{9}$
(3) $\frac{5}{9}$
(4) $\frac{8}{9}$

11. Shaun ran 3 km on Monday. He ran $\frac{2}{5}$ km more on Monday than on Tuesday. How many kilometres did he run on both days?

(1) $2\frac{3}{5}$
(2) $3\frac{3}{5}$
(3) $5\frac{3}{5}$
(4) $6\frac{2}{5}$

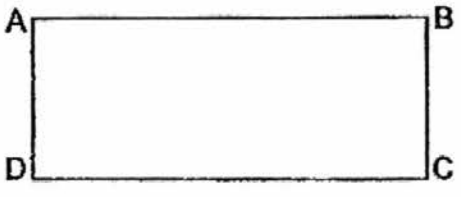
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12. After making $\frac{3}{4}$ turn anti-clockwise, Wan Xuan is facing the swimming pool. Where was Wan Xuan facing at first?



(1) Church
(2) Library
(3) Post Office
(4) Swimming Pool

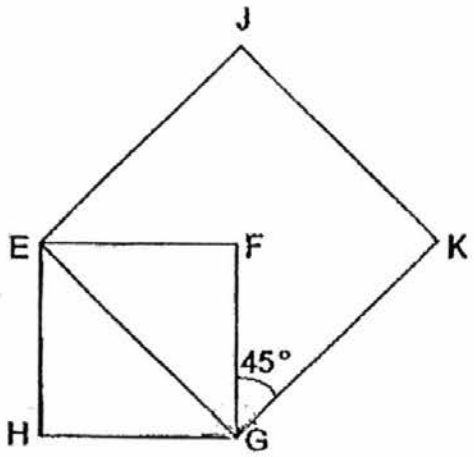
13. ABCD is a rectangle. How many pairs of perpendicular lines are there?



(1) 1
(2) 2
(3) 3
(4) 4

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14. The figure below is made up of 2 squares and ∠FGK is 45°
Find ∠HGK.



(1) 45°
(2) 90°
(3) 135°
(4) 180°

15. Danny had 4 boxes of pencils. There were 28 pencils in each box. The pencils were only sold in bundles of 7 pencils. Each bundle was sold at $1. He sold all the pencils. How much money would he collect? Round your answer to the nearest ten.

(1) $10
(2) $16
(3) $20
(4) $780

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Section B

Questions 16 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(Total: 40 marks)

16. One of the factors of 25 is 5. Write down all the other factors of 25.

Answer : _____

17. Write down all the common factors of 48 and 60.

Answer : _____

18. Write down the 7th multiple of 8.

Answer : _____

19. What is the quotient when 1000 is divided by 3?

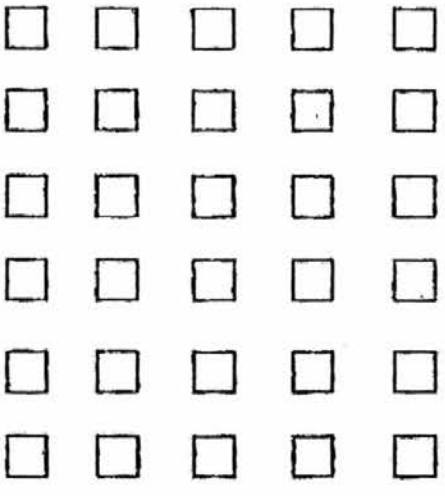
Answer : _____

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20. Express $3\frac{3}{4}$ as an improper fraction.

Answer : _____

21. Study the figure below. Shade the number of squares to show $\frac{1}{3}$ of the figure.

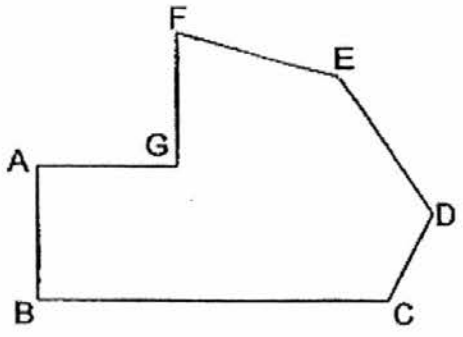


22. What is the difference between 8 and $\frac{6}{10}$?
Leave your answer in its simplest form.

Answer : _____

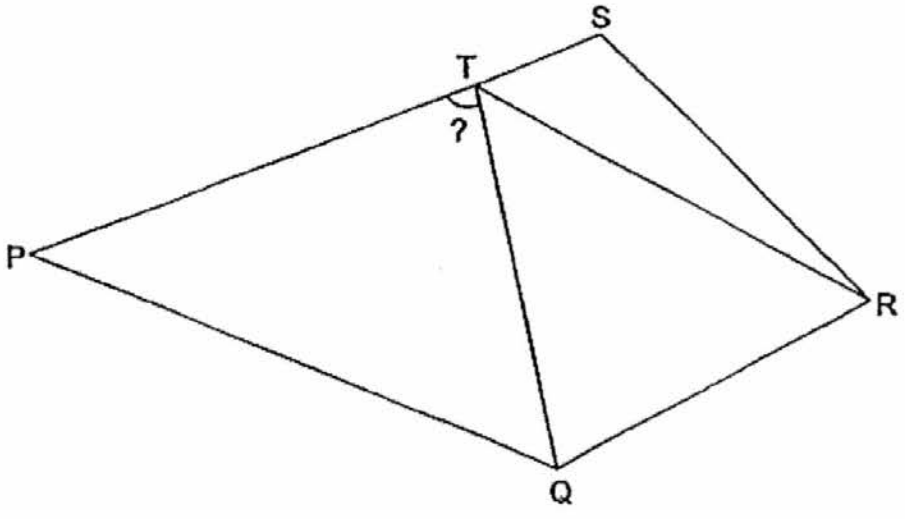
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23. The figure below is not drawn to scale. Mark and name an acute angle in the figure below.



Answer : ∠_____

24. PQRS is a four-sided figure. Name and measure the marked angle.



Answer : ∠_____ = _____°

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25. A whole number, M, is 2400 after rounding to the nearest 100. What is the greatest possible value of M?

Answer : _____

26. Ravi bought a dozen basketballs. Each basketball cost $13. He paid the cashier $200. How much change did he receive?

Answer : $ _____

27. En Xi had $480 dollars. She spent $\frac{3}{4}$ of her money on a watch. How much money did she spend on the watch?

Answer : $_____

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28. Wendy poured out 3 kg of the sugar from a container. She then added another $\frac{5}{8}$ kg of sugar and had $\frac{3}{4}$ kg of sugar in the end. How much sugar did Wendy have at first?
Express your answer as a mixed number.

Answer : _____ kg

29. Ruby had $\frac{1}{5}$ as many sweets as Lauren. They have 444 sweets altogether. How many sweets must Lauren give to Ruby so that they will have the same number of sweets?

Answer : _____

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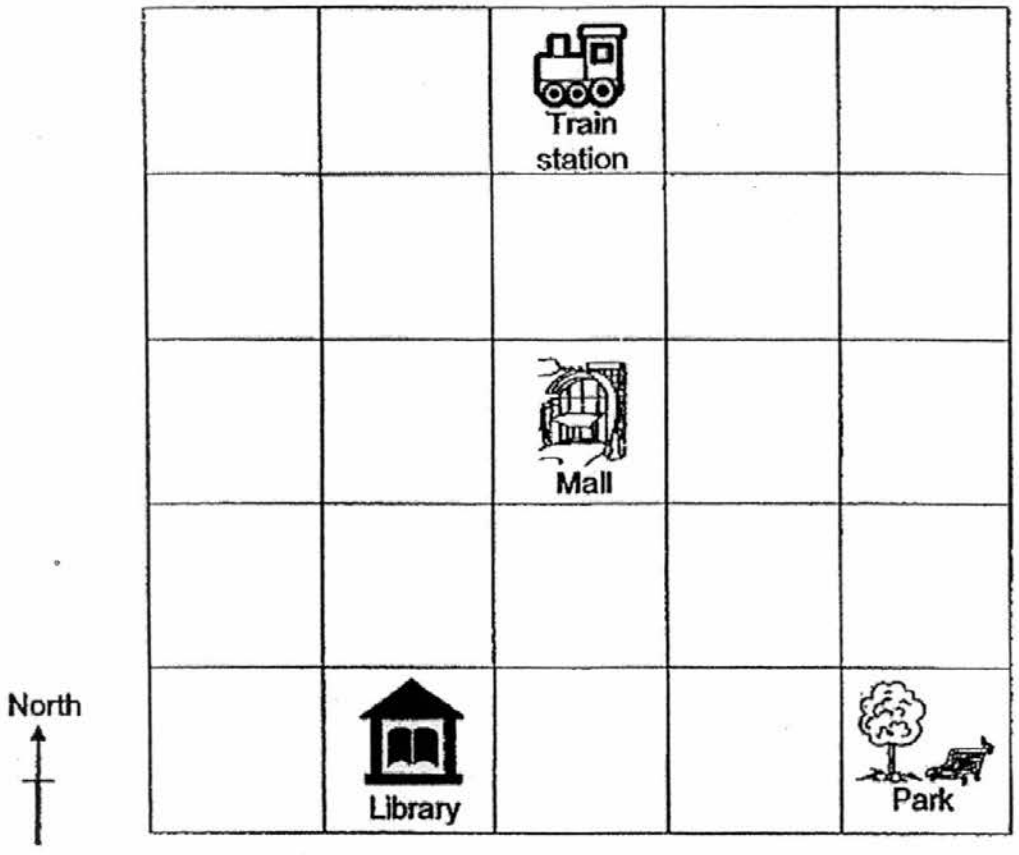
30. Using the line AB given below, draw an angle such that $\angle ABC$ is equal to 145°. Mark and label the angle.

B

A

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31. The square grid below shows a map of the different locations in a town. Using the information on the map, answer part (a) and (b).



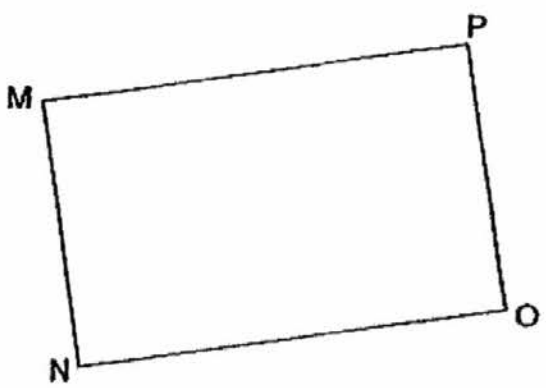
(a) Refer to the square grid above and fill in the blank.

The Park is to the south-east of the _____

(b) The government decides to build a playground at the south of the Train station and north of the Mall. Put a cross (x) in the square where the playground will be built.

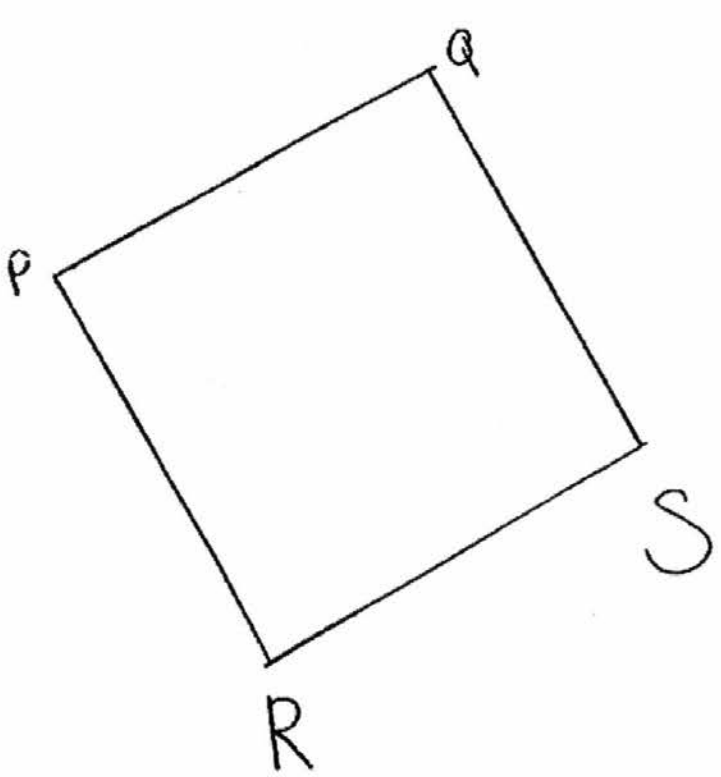
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32. MNOP is a rectangle. Name a pair of parallel lines.



Answer : _____ and _____

33. Use a ruler and a set square to draw a 6-cm square PQRS. Label the square.



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34. At a funfair, $\frac{7}{10}$ of the children were boys and the rest of the children were girls. There were 48 girls at the fun fair. What was the total number of children at the funfair?

Answer : _____

35. There were some passengers in a bus. At bus stop A, 12 passengers alighted from the bus. At bus stop B, another 7 passengers boarded and no one alighted. There were 33 passengers on the bus. How many passengers were in the bus before arriving at bus stop A?

Answer : _____

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Section C

Questions 36 to 37 carry 3 marks each and questions 38 to 43 carry 4 marks each. Do these word problems carefully. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

(Total: 30 marks)

36. Ai Ling had 430 g of flour. She wanted to bake a cake and a pie. The cake needed 4 times as much flour as the pie. In the end, she used 380 g of flour to bake the cake. How much more flour did Ai Ling need to buy to bake the pie?

Ans: _____ [3]

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37. Peter had 20 coins in his coin bank. There were only ten-cent and fifty-cent coins in the coin bank. He had $5.20 altogether. How many ten-cent coins did he have in all?

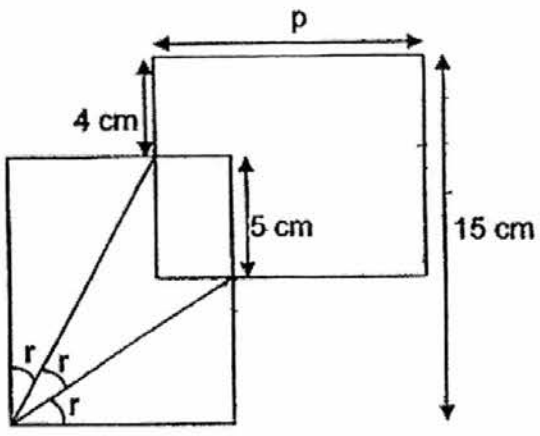
Ans: _____ [3]

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38. The figure below is made up of 2 identical rectangles.

(a) What is the length of p?

(b) Find $\angle r$.

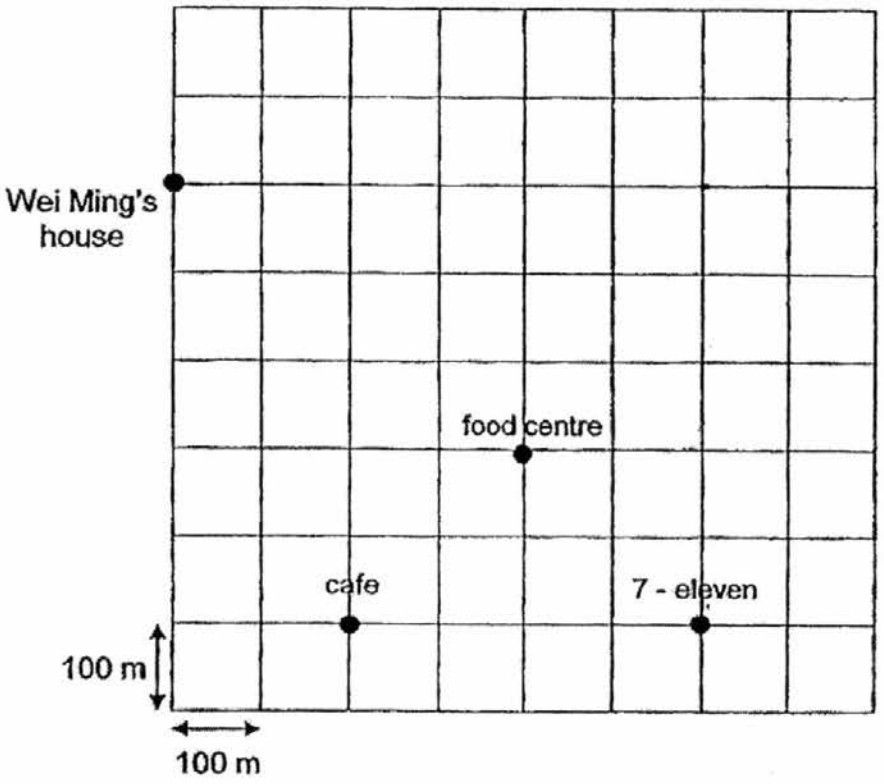


Ans: (a) _____ [2]

(b) _____ [2]

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39. Wei Ming and his friends were at a park last Saturday. The square grid below shows the plan of the park.



(a) In which direction is the food centre from the cafe?

(b) In which direction is the 7-eleven from the food centre?

(c) From 7-eleven, they cycled 500 m north to a camp site.
Using your highlighter, trace the route and mark the location of the camp site. [2]

Ans: a) _____ [1]

b) _____ [1]

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40. Yida had $1000. Each pair of shoes cost $80 more than one badminton racket. He spent $\frac{3}{5}$ of his money on 3 pairs of shoes and 2 badminton rackets.

(a) How much did he spend altogether?

(b) What was the cost of 1 badminton racket?

Ans: a) _____ [2]

b) _____ [2]

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41. At a farm, there were $\frac{3}{7}$ as many chickens as ducks. There were 216 more ducks than chickens. 142 ducks were sold away. How many ducks were left in the end?

Ans: _____ [4]

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42. Mr Tan had a fruit store. $\frac{1}{2}$ of the number of fruits in his store were oranges, $\frac{1}{5}$ of the fruits were apples and the rest were pears. There were 892 more oranges than pears.

(a) What fraction of the fruits were pears?

(b) He sold 250 apples. He also sold twice as many apples as oranges. He did not sell any pears. How many fruits were left in the fruit store?

Ans a) _____ [2]

b) _____ [2]

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43. Peter jogged at the park once every 3 days. John jogged at the same park once every 4 days. They met on 3 February 2016.

(a) On what date did they next meet each other in the park?

(b) How many times did they meet in the park in February 2016?

Ans: (a) _____ [2]

(b) _____ [2]

END OF PAPER

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EXAM PAPER 2016

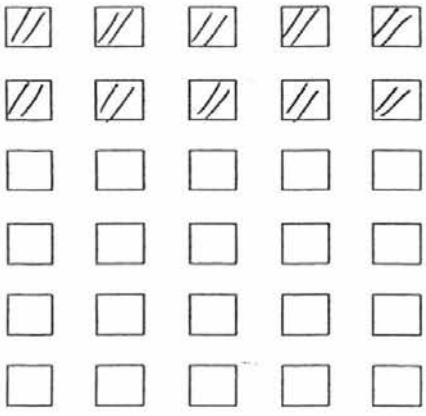
SCHOOL :NANYANG

SUBJECT :P4 MATHEMATICS

TERM : SA1

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

16)1,25 17)1,2,3,4,6,12 18)56 19)333 20)15/4

21) 

22)$7_{2/5}$ 23)F∠EFG

24)∠ PTQ = 81°

25)2449

26)$13 x $12 = $156

$200 – $156 = $44

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27)4/4→$480

¼ →$480 ÷ 4 = $120

¾ →$240 x 3 = $360

28) ¾ - 5/8 = 6/8 – 5/8

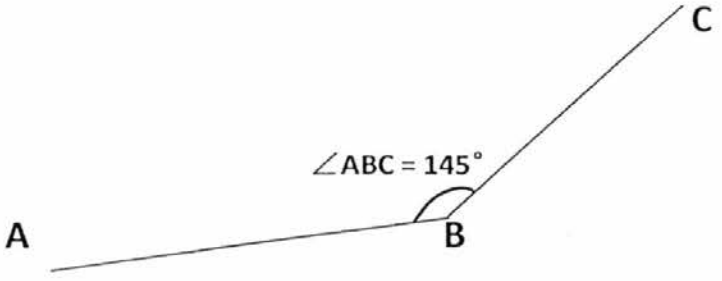
1/8 + 3 = $3\frac{1}{8}$ kg

29)6u = 444

1u = 444 ÷ 6 = 74

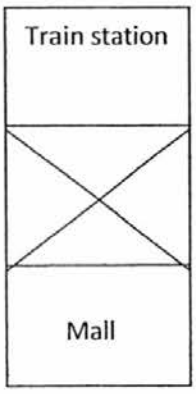
2u = 74 x 2 = 148

30)



31)a)Mall

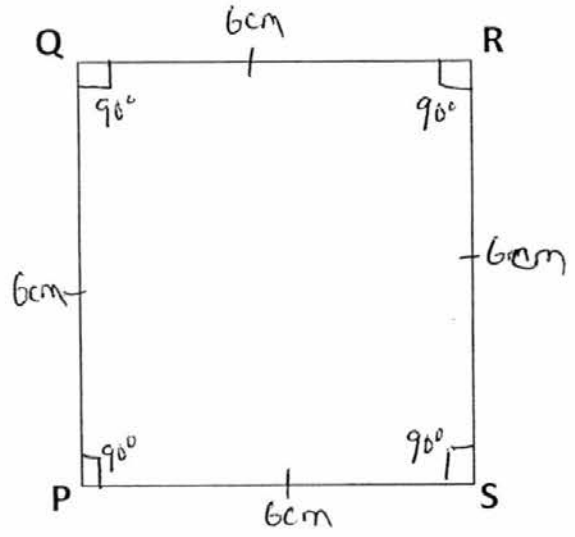
b)



32)MP and No

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33)



34)48→10/10 – 7/10 = 3/10

1/10→48 ÷ 3 = 16

10/10→16 x 10 = 160

35)33 – 7 = 26

26 + 12 = 38

36)4u = 380

1u = 380 ÷ 4 = 95

380 + 95 = 475

475 – 430 = 45g

37)$0.50 x 20 = $10

$10 – $5.20 = $4.80

50c – 10c = 40c

480c ÷ 40c = 12

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38)a)11cm

b)30°

39)a)North-east

b)south-east

c)7-eleven -→Wei Ming's house (campsite)

40)a)5/5→$1000

1/5→$1000÷5 = $200

(total amount spent)3/5→$200 x 3 = $600

b)$80 x 3 = $240

5u→$600 – $240 = $360

1u→$360÷5 = $72

41)4units = 216

1 unit = 216÷4 = 54

7 units = 54 x 7 = 378

378 – 140 = 236

42)a)oranges→10/10 – ½ = 10/10 – 5/10 = 5/10

Pears→5/10 – 1.5 = 5/10 – 2/10 = 3/10

b)892→5/10 – 3/10 = 2/10

1/10 →892÷2 = 446

250÷2 = 125

125 x 3 = 375

N0.0f fruits→446 x 10 = 4460 Left→4460 – 375 = 4085

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43)a)15th February 2016

b)3

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