



MARIS STELLA HIGH SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 1

PRIMARY 4 MATHEMATICS

11 MAY 2011

BOOKLET A

20 questions

40 marks

Total Time For Booklets A and B: 1 h 45 min

NAME : _____ ()

CLASS : PRIMARY 4 _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

Section A (20 x 2 = 40 marks)

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

1. The value of the digit 7 in 43 070 is _____.

- (1) 7
- (2) 70
- (3) 700
- (4) 70 000

2. Express $5\frac{3}{4}$ as an improper fraction.

- (1) $\frac{12}{4}$
- (2) $\frac{19}{4}$
- (3) $\frac{20}{4}$
- (4) $\frac{23}{4}$

3. Find the difference between $5\frac{2}{3}$ and $\frac{1}{6}$.

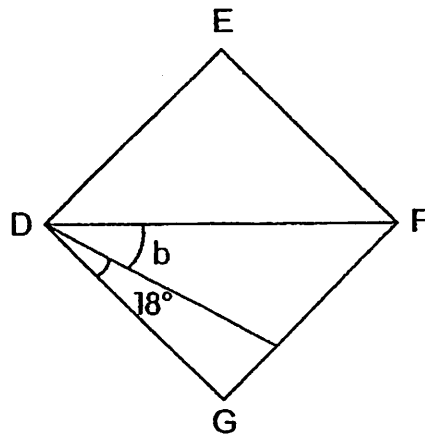
- (1) $5\frac{1}{6}$
- (2) $5\frac{1}{3}$
- (3) $5\frac{3}{6}$
- (4) $5\frac{5}{6}$

4. How many letters in the word below have parallel lines?

MATH

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

5. In the figure below, DEFG is a square. Find $\angle b$.



6. Which one of the following is an equivalent fraction of $\frac{8}{12}$?

- (1) $\frac{1}{2}$
- (2) $\frac{1}{3}$
- (3) $\frac{2}{3}$
- (4) $\frac{3}{4}$

7. $5 + \square = \frac{31}{4}$

(1) $\frac{11}{4}$

(2) $\frac{26}{4}$

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

(4) $7\frac{3}{4}$

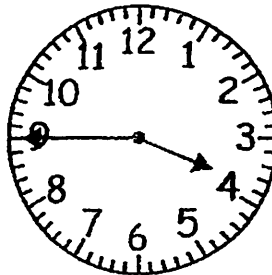
8. What is the time shown on the clock?

(1) 15 minutes to 3

(2) 15 minutes to 4

(3) 15 minutes past 3

(4) 45 minutes past 4



9. At a party, 5 cakes were shared equally among 12 children. How many cakes did 3 children receive?

(1) $\frac{1}{12}$

(2) $\frac{5}{12}$

(3) $1\frac{1}{4}$

(4) $2\frac{2}{5}$

10. Tommy's boat was facing north-east. It turned 135° in a clockwise direction after a wave hit it. Which direction is the boat facing now?

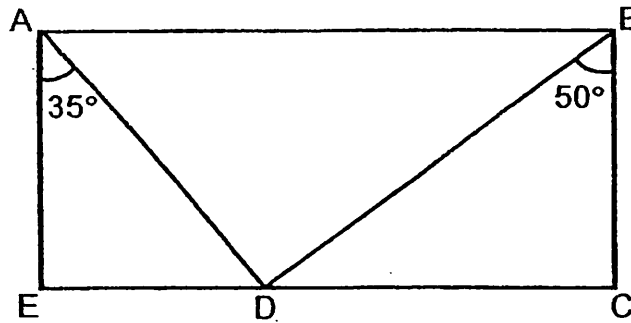
(1) North

(2) South

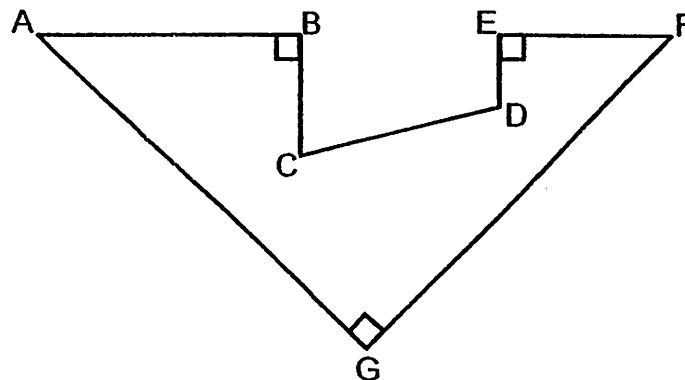
(3) East

(4) West

11. In the figure below not drawn to scale, ABCE is a rectangle. Find the value of $\angle ABD$.

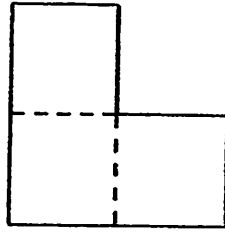


- (1) 90°
 (2) 55°
 (3) 45°
 (4) 40°
12. In the figure below, which pair of lines are **not** perpendicular lines?

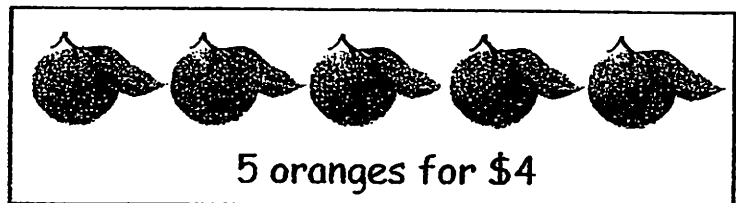
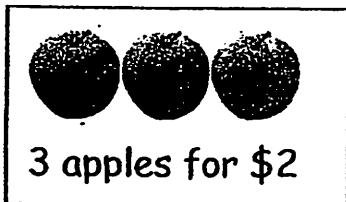


- (1) AB and CD
 (2) ED and EF
 (3) AG and FG
 (4) AB and BC
13. The total length of 7 similar pieces of ribbon is 31 m 85 cm. Find the length of 5 pieces of ribbon.
- (1) 2 m 275 cm
 (2) 4 m 55 cm
 (3) 22 m 75 cm
 (4) 45 m 5 cm

14. The figure below is formed by 3 squares, each of side 4 cm long. Find the perimeter of the figure.



- (1) 24 cm
(2) 32 cm
(3) 36 cm
(4) 48 cm
15. Sally took 1 h 40 min to travel from her house to Town A. Mark took 35 min longer to travel to Town A. What is the total time taken by Sally and Mark to travel to Town A?
- (1) 2 h 15 min
(2) 2 h 55 min
(3) 3 h 15 min
(4) 3 h 55 min
16. Apples and oranges are sold at the price below in a certain shop.



Mr Tan bought 6 apples and 10 oranges from the shop. He gave the cashier \$20. How much change did he get?

- (1) \$6
(2) \$8
(3) \$12
(4) \$14

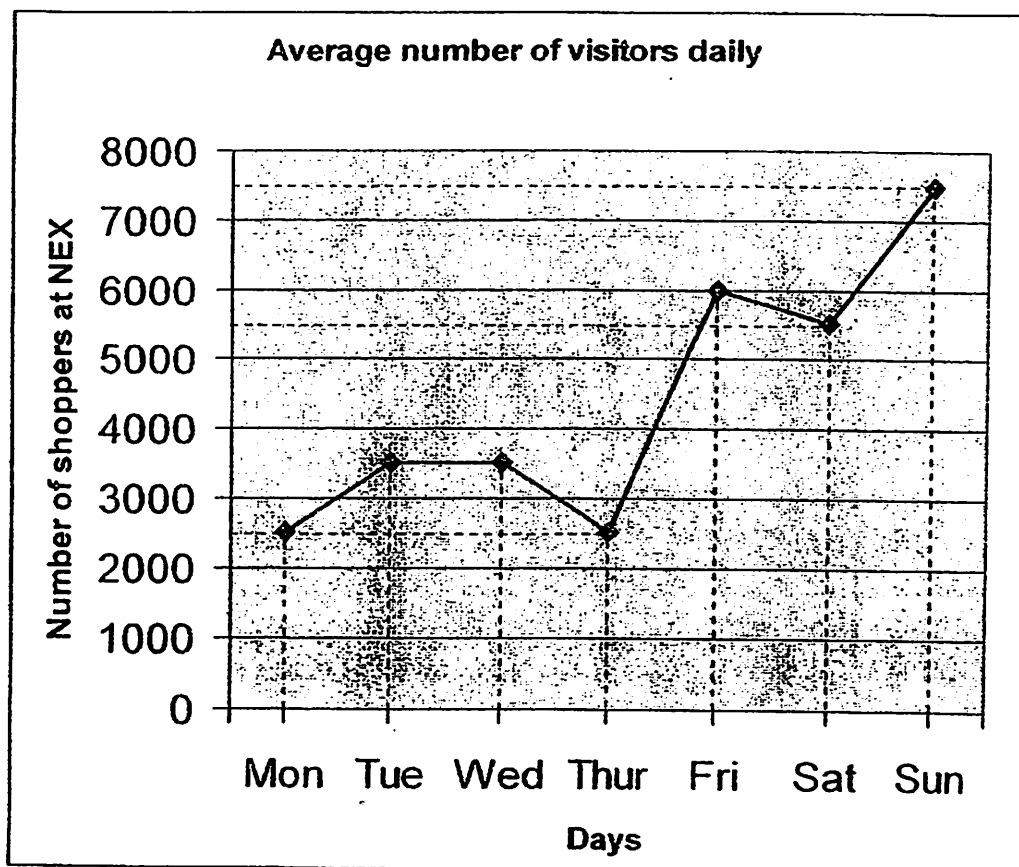
17.

$$\begin{aligned} \star + \star &= \boxed{A} \\ \star \times \star &= \boxed{B} \end{aligned}$$

If \boxed{A} is a factor of \boxed{B} , what is the possible value of \star ?

- (1) 1
- (2) 5
- (3) 3
- (4) 4

18. The table below shows the number of shoppers at NEX shopping mall in a particular week.



What is the difference between the largest and the smallest number of shoppers at NEX in the week?

- (1) 3500
- (2) 5000
- (3) 6500
- (4) 10 000

19. Find the missing number in the number pattern below.

1, 4, 9, 16, 25, , 49

- (1) 27
(2) 30
(3) 36
(4) 40
20. $\frac{5}{7}$ of the restaurant staff are Singaporeans while the rest are foreigners. There are 48 more Singaporean than foreign staff. How many staff are there altogether?
- (1) 16
(2) 48
(3) 64
(4) 112

End of Booklet A
Go on to Booklet B



MARIS STELLA HIGH SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 1

PRIMARY 4 MATHEMATICS

11 MAY 2011

BOOKLET B

25 questions

60 marks

Total Time For Booklets A and B: 1 h 45 min

NAME : _____ ()

CLASS : PRIMARY 4 _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

MARKS OBTAINED :

BOOKLET A: _____ / 40

BOOKLET B: _____ / 60

TOTAL : _____ / 100

Section B (20 x 2 = 40 marks)

Show your working clearly in the spaces below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

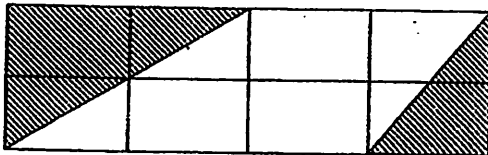
21. $7077 \div 7 = \underline{\hspace{2cm}} \times 3$

Answer: _____

22. What is $\frac{4}{9}$ of 72 ?

Answer: _____

23. What fraction of the figure below is shaded ?



Answer: _____

24. Arrange the following fractions from the smallest to the largest.

$1\frac{3}{2}$

$\frac{22}{8}$

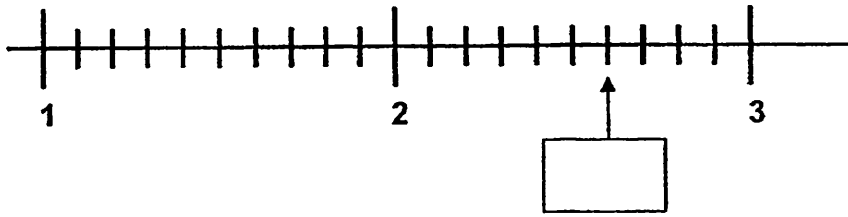
$2\frac{1}{4}$

Answer: _____

Do not write in this space.

--

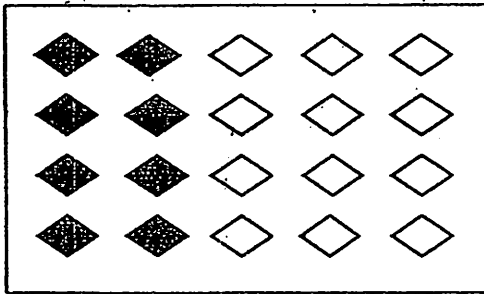
25. What is the correct improper fraction indicated by the arrow?



Answer: _____

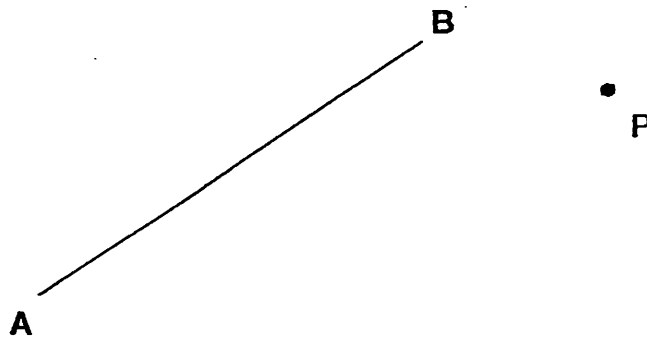
Do not write in this space.

26. What fraction of the diamonds is not shaded? Give your answer in the simplest form.

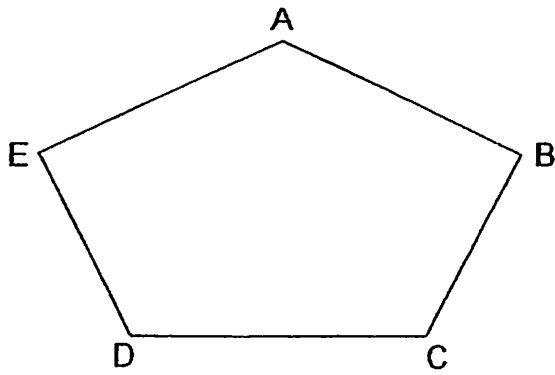


Answer: _____

27. Draw a line parallel to AB. The line must pass through point P.



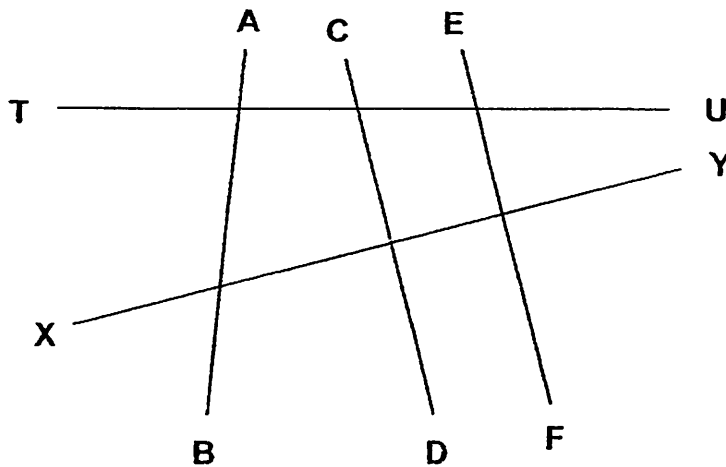
28. Use a protractor to measure $\angle DEA$.



Answer: _____°

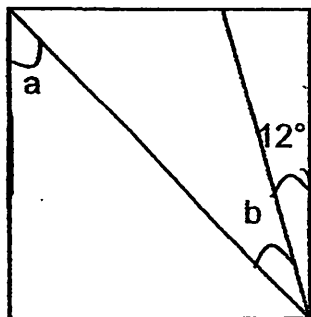
Do not
write in
this
space.

29. In the figure below, identify the line that is perpendicular to XY and also parallel to EF .



Answer: _____

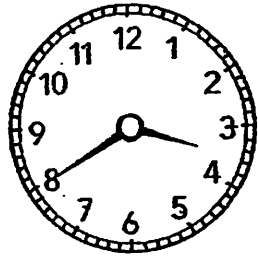
30. The figure below is a square not drawn to scale. Find the sum of $\angle a$ and $\angle b$.



Answer: _____°

31. The clock below is 25 minutes faster than the actual time.

What will the actual time be $1\frac{1}{2}$ hours later?



Answer: _____ p.m

32. The admission ticket for a child to a funfair is \$2.50. An adult admission ticket costs \$3 more. Mdm Peh and her 3 children want to go to the funfair. How much would the family have to pay altogether?

Answer: \$ _____

33. Robin used 6 pieces of \$2 notes to exchange for 20¢ coins and 50¢ coins. He had 3 more 50¢ coins than 20¢ coins from the exchange. Find the total number of coins he received from the exchange.

Answer: _____

Do not
write in
this
space.

34. Wei Xin took 4 exercise books, a pocket dictionary, a calculator and a box of coloured pencils from the shelves in a bookshop. The price of each of the items are shown in the table below.

Do not write in this space.

Items	Exercise book	Pocket dictionary	Calculator	Coloured pencils
Price	80¢ each	\$10.50 each	\$12.90 each	\$4.70 per box

He gave the cashier \$20 but was told it was not enough to pay for all the items he had taken. He put **two** items back to the shelves and had the **exact** amount of money to pay for the remaining items he had taken. Which items did he put back?

Answer: _____ and

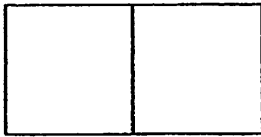
35. The table below shows the charges for printing photos at a photo centre.

Size	20 Photo and below	21 – 100 Photo	101 – 500 Photos	Above 500 Photos
4R	40¢ each	35¢ each	30¢ each	25¢ each
5R	50¢ each	45¢ each	40¢ each	35¢ each
8R	\$1.50 each	\$1.40 each	\$1.20 each	80¢ each

Muthu printed 22 4R photos and 124 5R photos. How much did he pay in total?

Answer: \$ _____

36. Two identical squares are used to form the figure below. The perimeter of the figure is 24 cm. Find the area of one of the squares.



Answer: _____ cm²

37. Mary had twice as many stickers as Bob. Joe had $\frac{1}{4}$ as many stickers as Bob. If Mary had 120 stickers, how many stickers did they have in total?

Answer: _____

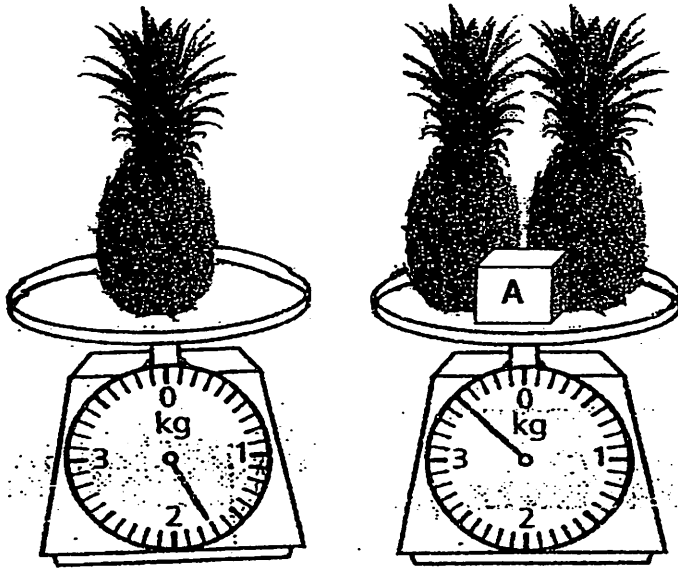
38. Mrs Tan had 189 key chains. She gave an equal number of key chains to 8 of her pupils. Each pupil received less than 20 key chains. What is the least number of key chains Mrs Tan had left?

Answer: _____

Do not
write in
this
space.

9/

39. The pineapples in the diagrams below are of the same mass. What is the mass of Object A? Give your answer in g.



Do not write in this space.

Answer: _____ g

40. A group of girls lined up in 7 rows in the hall. There were an equal number of girls in each row. Judy was in one of the rows. In her row, she was third from the front and sixth from the back. How many girls were there in the hall altogether?

Answer: _____

Section C (5 x 4 = 20 marks)

Work out the answers for each of the following questions. All workings must be shown clearly in the space provided.

41. On Day 1, 55 000 people attended the travel fair. On Day 2, the number of people who attended the travel fair was half of that in Day 1. On Day 3, 10 500 less people attended the travel fair than in Day 2.

Find the total number of people who attended the travel fair over the 3 days.

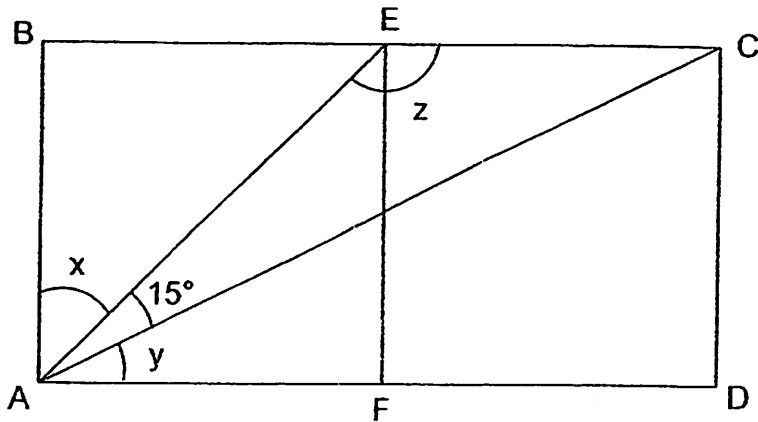
Do not write in this space.

Answer: _____ [4]

--

42. In the figure below, ABCD is a rectangle formed by 2 identical squares ABEF and CDFE. $\angle EAC$ is 15° and AC is a straight line.

Do not write in this space.



- (a) Find the sum of $\angle x$ and $\angle y$.
- (b) Find $\angle z$.

Answer: (a) _____ [2]

(b) _____ [2]

43. Kelly had $\frac{1}{5}$ of the number of beads Sammy had. After Kelly received 90 beads from Sammy, both of them had the same number of beads. How many beads did they have altogether?

Do not write in this space.

Answer: _____ [4]

75

--

44. A barrel can hold 96 litres of water. A tank can hold 12 more litres of water than the barrel. An aquarium can hold 3 times as much water as the tank. If the aquarium is $\frac{3}{4}$ filled with water, how much more water is needed to fill the aquarium completely?

Do not write in this space.

Answer: _____ [4]

--

45. Study the number pattern carefully. [Clue: The shaded boxes are the operators (\times , \div , $+$, or $-$).]

10		20	200		50	4
16		30	480		10	48
14		18	252		9	B
18		A	288		12	24

- (a) What is the value of **A**?
(b) What is the value of **B**?

Answer: (a) **A** = _____ [2]

(b) **B** = _____ [2]

Do not
write in
this
space.

END OF PAPER

97

--

ANSWER SHEET

EXAM PAPER 2011

SCHOOL : MARIS STELLA
SUBJECT : PRIMARY 4 MATHEMATICS

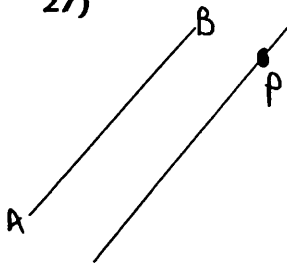
TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
2	4	3	2	1	3	1	2	3	2	4	1	3	2	4	2	4

Q18	Q19	Q20
2	3	4

21)337 22)32 23)3/8 24)2¹/₄, 1³/₂, 22/8 25)13/5

26)3/5 27) 28)87° 29)CD 30)78°



31)4.45 p.m. 32)\$13 33)33 34)Pocket dictionary and Exercise book

35)\$57.30 36)16cm² 37)195 38)37 39)100g 40)56

41)Day 2 → 55000 ÷ 2 = 27500
Day 3 → 27500 - 10500 = 17000
Total → 55000 + 27500 + 17000 = 99500 people.

42)a) ∠X + ∠Y = 90° - 15° = 75°
b) ∠Z = 90° + 45° = 135°

45)a) 288 ÷ 18 = 16
b) 252 ÷ 9 = 28

43)2u → 90
1u → 90 ÷ 2 = 45
6u → 45 × 6 = 270

44)tank → 96L + 12L = 108L
Aquarium → 108L × 3 = 324L
324 ÷ 4 = 81L