

# TEST

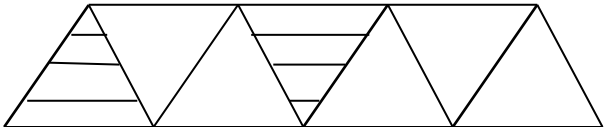
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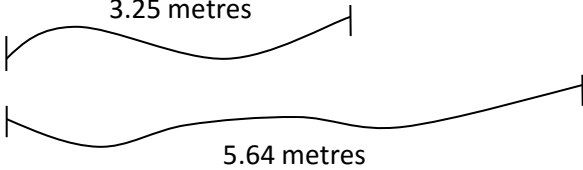
# MATHEMATICS TEST 6

# TIME- 75 MINUTES

## SECTION 1

Each question is worth 1 mark. Answer ALL questions. Show ALL working in the Working Column.

No.	Items	Working Column	Marks												
1.	<p><b>ADD:</b></p> $\begin{array}{r} 928 \\ + 401 \\ \hline \end{array}$ <p>Answer: _____</p>	$928 + 401 = 1329$													
2.	<p>Write the numeral which represents</p> $(5 \times 10000) + (4 \times 100) + (3 \times 10) + (2 \times \frac{1}{10})$ <p>Answer: _____</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>TTH</th> <th>TH</th> <th>H</th> <th>T</th> <th>O</th> <th><math>\frac{1}{10}</math></th> </tr> </thead> <tbody> <tr> <td>5</td> <td>0</td> <td>4</td> <td>3</td> <td>0</td> <td>2</td> </tr> </tbody> </table> $50430.2$	TTH	TH	H	T	O	$\frac{1}{10}$	5	0	4	3	0	2	
TTH	TH	H	T	O	$\frac{1}{10}$										
5	0	4	3	0	2										
3.	<p>What FRACTION of the whole shape is shaded?</p>  <p>Answer: _____</p>	$\frac{2}{7}$													
4.	<p><b>DIVIDE:</b></p> $6 \overline{) 3612}$ <p>Answer: _____</p>	$602$													

5.	<p>Express <math>\frac{23}{5}</math> as a MIXED number.</p> <p>Answer: _____</p>	$4\frac{3}{5}$	
6.	<p>James has 160 melons. He sells <math>\frac{3}{4}</math> of them.</p> <p>How many melons does James sell?</p> <p>Answer: _____</p>	$\text{Sold} = \frac{3}{4} \times \frac{160}{1}$ $= 120 \text{ melons}$	
7.	<p>Michael was born in March 1998. He moved to Caroni in June 2012. How old was Michael when he moved to Caroni?</p> <p>Answer: _____</p>	$2012 - 1998$ $= 14 \text{ years old}$	
8.	 <p>Find the total length of the 2 pieces of string above.</p> <p>Answer: _____ m</p>	$3.25 + 5.64$ $= 8.89 \text{ m}$	
9.	<p>Every seventh customer at SuperShow Cinema is given a free ticket to the movie. How many free tickets are given out if 65 customers go to the cinema?</p> <p>Answer: _____ tickets</p>	$65 \div 7 = 9 \text{ rem. } 2$ $9 \text{ free tickets}$	

10. Complete the table below.

Common Fraction	Decimal Fraction	Percentage
$\frac{12}{25}$		48%

$$\frac{12}{25} = 12 \div 25$$

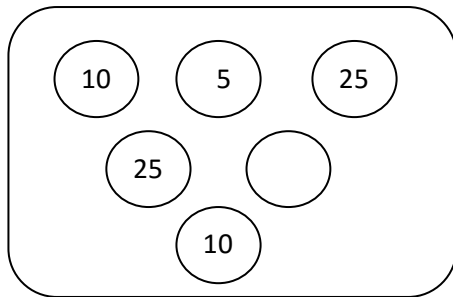
$$= 0.48$$

11. Convert 4.5 kilometres to metres.

Answer: \_\_\_\_\_ m

**4500 m**

12. Andy has the coins shown in the diagram below.



The total value of all the coins is \$1.00  
What is the value of the unmarked coin?

Answer: \_\_\_\_\_

**25 c**

13. In the figure below EACH square represents  $1\text{cm}^2$ .

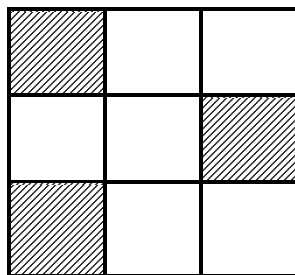
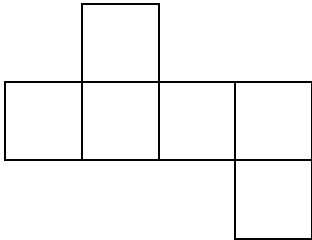
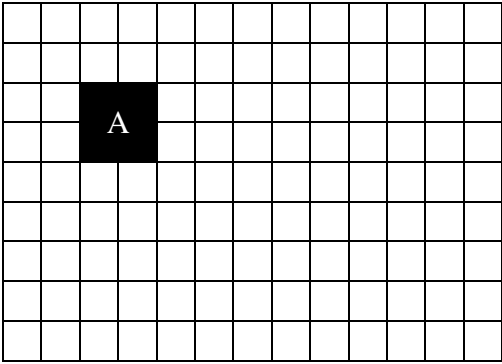
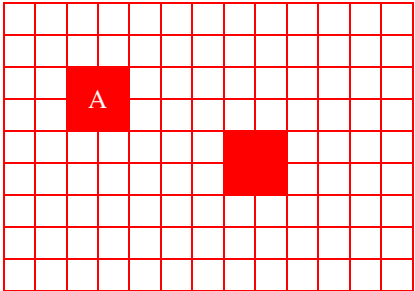


Figure 1

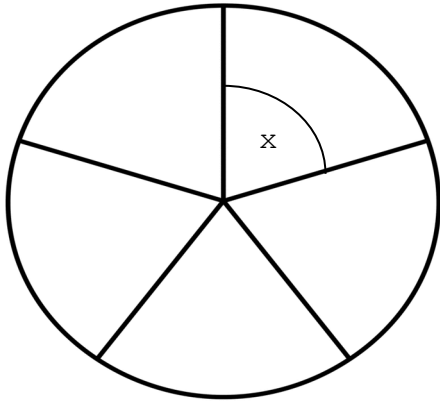
The area of the shaded region is

Answer: \_\_\_\_\_  $\text{cm}^2$

**$3\text{ cm}^2$**

<p><b>14.</b></p>	<p>Raj left for school at 7:25a.m. He took 1 hour and 5 minutes to get to school. At what time did he arrive at school?</p> <p>Answer: _____</p>	<p style="text-align: center;"><math>7:25 + 1:05 =</math> <b>8:30 am</b></p>	
<p><b>15.</b></p>	<p>The figure below shows the net of a solid.</p> <div style="text-align: center;">  </div> <p>What is the name of the solid?</p> <p>Answer: _____</p>	<p style="text-align: center;"><b>Cube</b></p>	
<p><b>16.</b></p>	<div style="text-align: center;">  </div> <p>The object moves in a straight line 5 units to the right and two units down. Draw its image on the grid.</p>	<div style="text-align: center;">  </div>	

17. A circular piece of paper is cut into five EQUAL parts as shown in the diagram below. What is the size of angle  $x$ ?

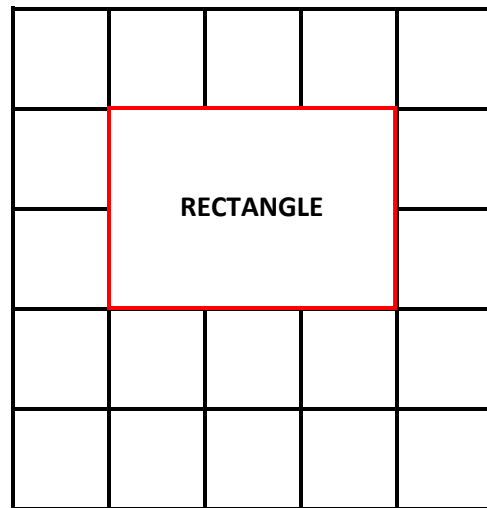
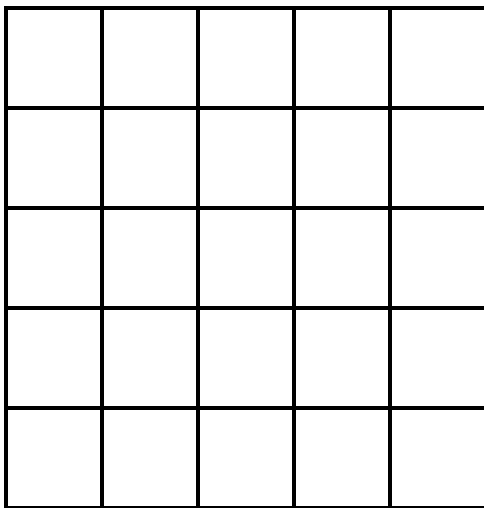


$$360^\circ \div 5 = 72^\circ$$

$$x = 72^\circ$$

Answer: \_\_\_\_\_ degrees

18. On the grid below, draw a four-sided figure with four right angles, TWO pairs of parallel lines and ONLY two lines of symmetry.



Answer: \_\_\_\_\_

19. Complete the table below.

FRUITS	TALLY	FREQUENCY
Mangoes		8
Plums		5
Oranges		4

Answer: \_\_\_\_\_

~~||||~~ 111

20. The mean of 14 and 16 is the same as the mean of 20 and .

What number does  represent?

Answer: \_\_\_\_\_

**Totals must be the same**

$$14 + 16 = 20 + \square$$

$$30 = 20 + 10$$

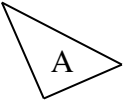
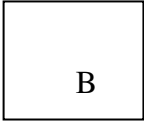
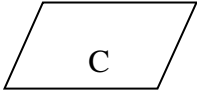
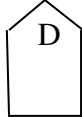

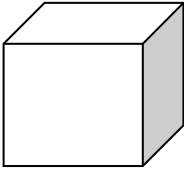
$$\therefore \square = 10$$

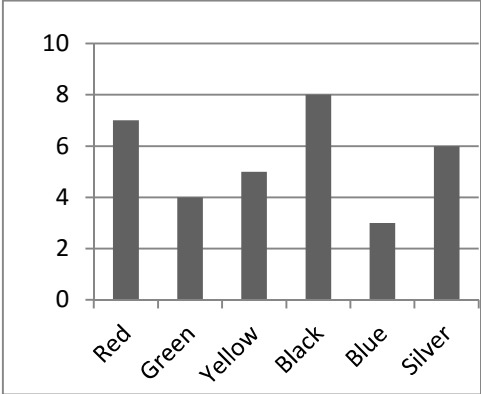
## SECTION 2

Each question is worth either 2 or 3 marks. Answer ALL questions. Show ALL working in the Working Column.

No.	Items	Working Column	Marks
21.	<p>Here are four number chits.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">5</div> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">4</div> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">7</div> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">3</div> </div> <p>(a) What is the SMALLEST number that can be made using these cards?</p> <p>Answer: _____ (1)</p> <p>(b) Arrange the above chits to show the largest number between 4000 and 5000 that is divisible by 5.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 40px; height: 30px;"></div> <div style="border: 1px solid black; width: 40px; height: 30px;"></div> <div style="border: 1px solid black; width: 40px; height: 30px;"></div> <div style="border: 1px solid black; width: 40px; height: 30px;"></div> </div> <p>Answer: _____ (2)</p>	<p>(a) <b>3457</b></p> <p>(b) <b>4375</b></p>	
22.	<p>Find the product of <math>3\frac{3}{5}</math> and <math>2\frac{7}{9}</math>.</p> <p>Answer: _____ (2)</p>	$3\frac{3}{5} \times 2\frac{7}{9}$ $= \frac{18}{5} \times \frac{25}{9}$ $= \mathbf{10}$	
23.	<p>Which of the following fractions is the SMALLEST?</p> <p><math>\frac{7}{12}</math>, <math>\frac{5}{8}</math>, <math>\frac{2}{3}</math></p> <p>Answer: _____ (2)</p>	$\frac{7}{12} \quad \frac{5}{8} \quad \frac{2}{3}$ $\frac{14}{24} \quad \frac{15}{24} \quad \frac{16}{24}$ $= \frac{7}{12}$	

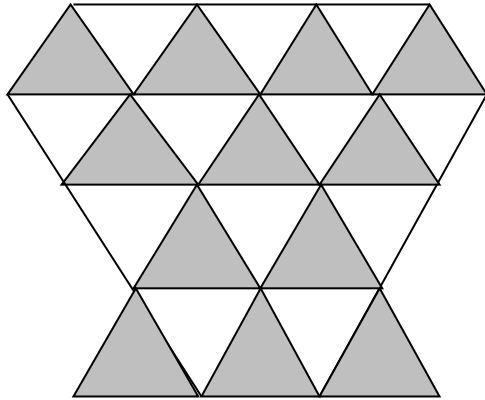


<p>24.</p>	<p>Write the next TWO numbers to complete the sequence below.</p> <p>1, 4, 9, 16, 25, _____, _____.</p> <p>Answer: _____ and _____(2)</p>	<p>Squared Numbers <math>6^2</math> <math>7^2</math></p> <p>= <b>36</b> <b>49</b></p>	
<p>25.</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>A</p> </div> <div style="text-align: center;">  <p>B</p> </div> <div style="text-align: center;">  <p>C</p> </div> </div> <div style="text-align: center; margin-top: 20px;">  <p>D</p> </div> <p>Which of the plane shapes above has ONE line of symmetry.</p> <p>Answer: _____ (2)</p>	<div style="text-align: center;">  <p>D</p> </div>	
<p>26.</p>	<p>The volume of the cube shown is <math>125\text{cm}^3</math>.</p> <div style="text-align: center;">  </div> <p>(a) What is the length of one edge of the cube?</p> <p>Answer: _____ cm (1)</p> <p>(b) What is the area of one face of the cube?</p> <p>Answer: _____ <math>\text{cm}^2</math> (2)</p>	<p>(a) Volume = <math>S \times S \times S</math></p> <p><math>S^3 = \sqrt[3]{125}</math></p> <p><b><math>S = 5\text{cm}</math></b></p> <p>(b) Area of square ( 1face) = <math>S \times S</math></p> <p style="padding-left: 20px;"><math>= 5 \times 5</math></p> <p style="padding-left: 20px;"><b><math>= 25\text{cm}^2</math></b></p>	

<p>27.</p>	<p>There are 35 students in a Std 5 class. On Monday, 80% of the students were present. How many students were ABSENT on Monday?</p> <p>Answer: _____ (2)</p>	<p>Present = 80%  Absent = 20% x 35  = <math>\frac{1}{5} \times \frac{35}{1}</math>  = <b>7 students were absent</b></p>	
<p>28.</p>	<p>1 ball and 2 tennis rackets cost \$250.00.</p> <p>If 1 ball and 4 tennis rackets cost \$460.00, what is the cost of ONE tennis racket?</p> <p>Answer: \$ _____ (3)</p>	<p><math>1b + 4T.R = \\$460</math>  <math>1b + 2T.R = \\$250</math>  <math>\therefore 2T.R = \\$210 (460 - 250)</math>  <math>1T.R = \\$210 \div 2</math>  <b>1 T.R = \$ 105</b></p>	
<p>29.</p>	<p>The graph below shows the number of each colour of cars in the parking lot of Do Well Primary School.</p>  <p>How many cars are there in the car park?</p> <p>Answer: _____ (2)</p>	<p><b>Total no. of cars = 7 + 4 + 5 + 8 + 3 + 6 = 33 cars</b></p>	
<p>30.</p>	<p>For every \$2.00 that Samantha saves, her brother John saves 1 dollar MORE. At the end of the week, Samantha saved \$10.00. How much money does John save in the same time?</p> <p>Answer: _____ (2)</p>	<p>Sam = \$2    John = \$ 3  Sam = \$ 10  John = <math>(10 \div 2) \times 3</math>  = <b>\$15</b></p>	

<p><b>31.</b></p>	<p>Jade is asked to multiply 472 by 32. In error, she multiplies 472 by 22.</p> <p>(a) What answer would Jade get?</p> <p>Answer: _____ (1)</p> <p>(b) Complete the statement below.</p> <p>The difference between the correct answer and the Jade's answer will be equal to:</p> <p>472 × <input type="text"/> (1)</p> <p>(c) What is the CORRECT answer that was asked of Jade?</p> <p>Answer: _____ (1)</p>	<p>(a) <math display="block">\begin{array}{r} 472 \times \\ \underline{22} \\ 944 \\ \underline{9440} + \\ \hline 10384 \end{array}</math></p> <p>(b) <math display="block">32 - 22 = 10</math></p> <p>(c) <math display="block">\begin{array}{r} 472 \times \\ \underline{32} \\ 944 \\ \underline{14160} \\ \hline 15104 \end{array}</math></p>	
<p><b>32.</b></p>	<p>Ajay was given a box containing 35 coloured pencils for his birthday. He lost 10 one day at school when the box fell down.</p> <p>What fraction of coloured pencils REMAINED?</p> <p>Answer: _____(2)</p>	<p><math display="block">35 - 10 = 25</math></p> <p><math display="block">\text{Fraction Remained} = \frac{25}{35}</math></p> <p><math display="block">= \frac{5}{7}</math></p>	
<p><b>33.</b></p>	<p>Justin goes to school 3.5km away from his home. He travels by car for part of the way and walks a further 200m to get there.</p> <p>What distance does Justin travel by car?</p> <p>Answer: _____ km (2)</p>	<p><math display="block">\text{Car} = 3.5 \text{ km} - 0.2 \text{ km} = 3.3 \text{ km}</math></p>	

34.



(a) State as a decimal the portion of the diagram above that is shaded.

Answer: \_\_\_\_\_ (1)

(b) What percentage of the diagram is UNSHADED?

Answer: \_\_\_\_\_ (2)

$$\begin{aligned} \text{(a) Shaded} &= \frac{12}{24} \\ &= \mathbf{0.5} \end{aligned}$$

$$\begin{aligned} \text{(b) Unshaded} &= \frac{12}{24} \times 100 \\ &= \mathbf{50\%} \end{aligned}$$

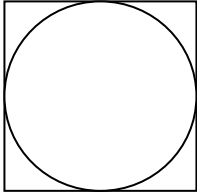
35.



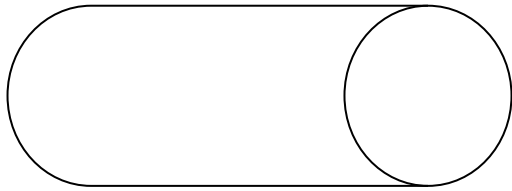
A can holds 1.8 litres of water. How many cups, each holding 150ml must be used to fill the large can?

Answer: \_\_\_\_\_ cups (2)

$$\begin{aligned} 1.8 \text{ L} &= 1800 \text{ ml} \\ &= 1800 \div 150 \\ &= \mathbf{12 \text{ cups}} \end{aligned}$$

<p>36.</p>	<p>The diameter of the circle in the diagram below is 12cm. What is the area of the square?</p>  <p>Answer: _____cm<sup>2</sup> (2)</p>	<p>Area of square = S x S  = 12 x 12  = <b>144 cm<sup>2</sup></b></p>	
<p>37.</p>	<p>Mr. Lee works for \$20.00 an hour. He works Monday to Friday from 7:00 a.m. to 4:00 p.m. On Saturday he works from 8:00a.m to 12:00 noon.</p> <p>What is Mr. Lee's salary for one week working from Monday to Saturday?</p> <p>Answer: _____ (3)</p>	<p>1 day = 9 hours  5 days = 9 x 5  = 45 hours  Saturday = 4 hours  = 49 hours</p> <p>Salary = 49 x \$20  = <b>\$ 980</b></p>	
<p>38.</p>	<p>A piece of ribbon was cut into equal lengths of 25 cm long.</p> <p>There were 20 pieces in total.</p> <p>What was the original length of the ribbon in metres?</p> <p>Answer: _____m (2)</p>	<p>20 x 25cm = 500cm</p> <p>500 cm ÷ 100  = <b>5m</b></p>	

39.



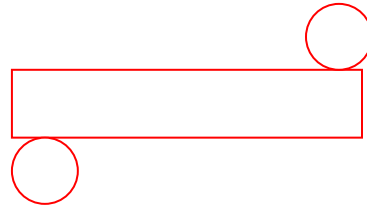
(a) Draw the net of the solid shown above in the space provided below.

Answer: \_\_\_\_\_ (2)

(b) What is the name given to this solid?

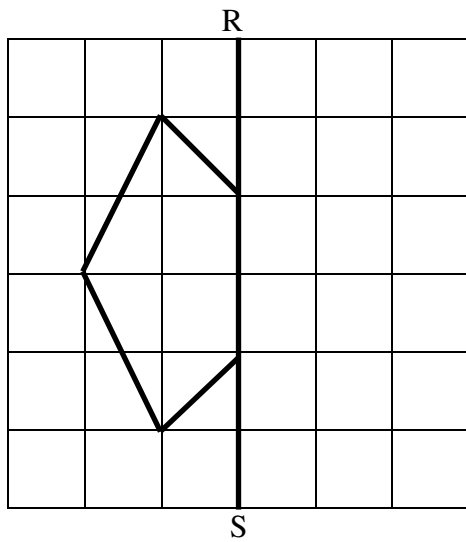
Answer \_\_\_\_\_(1)

(a)



(b) **CYLINDER**

40.



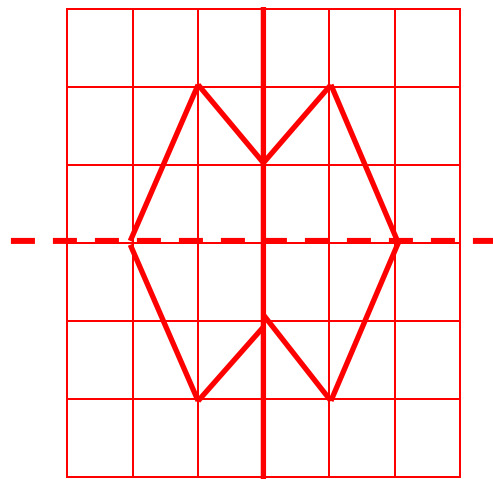
(a) RS is a mirror line. Draw the image of the shape given on the grid above

Answer \_\_\_\_\_ (1)

(b) Draw another line of symmetry on the new shape formed above.

Answer \_\_\_\_\_ (1)

(a)



### SECTION 3

**Each question is worth 5 marks. Answer ALL questions. Show ALL working in the Working Column.**

No.	Items	Working Column	Marks
<b>41.</b>	<p>In Valley View Primary School there are 12 classes. Each class has 30 pupils.</p> <p>(a) How many students are there in the school?</p> <p>Answer: _____ (2)</p> <p>(b) If the size of EACH class is reduced to 20 students, how many MORE classrooms will be needed?</p> <p>Answer: _____ classrooms (3)</p>	<p>(a) Total Population = <math>12 \times 30</math> = <b>360 students</b></p> <p>(b) <math>360 \div 20 = 18</math> classrooms</p> <p><b><math>\therefore</math> More classrooms = <math>6 (18 - 12)</math></b></p>	
<b>42.</b>	<p>Roger picked 500 oranges from his field. He sold 80% and gave <b><u>half of the remainder</u></b> to his brother.</p> <p>(a) How many oranges did Roger sell?</p> <p>Answer: _____ (2)</p> <p>(b) How many oranges did he give to his brother?</p> <p>Answer: _____ (1)</p> <p>(c) Roger sold the oranges at 10 for \$15.00. Calculate how much money he made from the oranges he sold.</p> <p>Answer: _____ (2)</p>	<p>(a) Sold = <math>80\% \times 500</math> = <b>400 oranges</b></p> <p>(b) Remainder = <math>500 - 400</math> = 100 oranges</p> <p>Gave Brother = <math>\frac{1}{2} \times 100</math> = <b>50 oranges</b></p> <p>(c) 10 oranges = \$ 15 400 oranges = <math>(400 \div 10) \times 15</math> = <math>40 \times 15</math> = <b>\$ 600</b></p>	



<p><b>43.</b></p>	<p>The cost price of a stereo is \$350.00 and the selling price is \$420.00.</p> <p>(a) What is the percentage profit?</p> <p>Answer: _____% (2)</p> <p>(b) The customer is given a 10% discount. What price would he pay for TWO stereos?</p> <p>Answer: \$ _____ (3)</p>	<p>(a) Profit = S.P - C.P          = \$ 420 - \$350          = \$ 70          Profit % = <math>\frac{\text{Profit} \times 100}{\text{C.P}}</math>          = <math>\frac{70}{350} \times \frac{100}{1}</math>          = <b>20 %</b></p> <p>(b) 2 stereos = 2 x 420          = \$840          Discount = 10 %          Paid = 90 % x 840          = <math>\frac{90}{100} \times \frac{840}{1}</math>          = <b>\$756.00</b></p>	
<p><b>44.</b></p>	<p>Cindy and her 9 friends visited an amusement park. They each had to pay \$12.00 to enter the park.</p> <p>(a) How much money do they spend for ALL of them to enter the park?</p> <p>Answer: \$ _____ (3)</p> <p>(b) If Cindy paid with \$200.00, how much change does she receive?</p> <p>Answer: \$ _____ (2)</p>	<p>(a) 1 person = \$ 12          10 persons = \$12 x 10          = <b>\$ 120</b></p> <p>(b) Change = \$ 200 - \$ 120          = <b>\$ 80</b></p>	

45. At a stationery store the prices of sharpeners, erasers and pens are as shown in the table below:

ITEM	COST
Sharpener	50 cents each
Eraser	2 for \$1.50
Pen	\$1.20 each

- (a) Ben purchased 2 sharpeners, 4 erasers and 5 pens.

How much did Ben pay for the items purchased?

Answer: \$\_\_\_\_\_ (3)

- (b) Ben had exactly \$5.00 remaining. What other set of items could Ben purchase to spend ALL his remaining money

\_\_\_\_\_ sharpeners

\_\_\_\_\_ erasers

\_\_\_\_\_ pens

Answer: \_\_\_\_\_(2)

$$\begin{aligned}
 \text{(a) } 2 \text{ sharpeners} &= 50c \times 2 \\
 &= \$1.00 \\
 4 \text{ erasers} &= \$1.50 \times 2 \\
 &= \$3.00 \\
 5 \text{ pens} &= \$1.20 \times 5 \\
 &= \$6.00
 \end{aligned}$$

$$\begin{aligned}
 \text{Ben Paid} &= \$1 + \$3 + \$6 \\
 &= \$10
 \end{aligned}$$

$$\text{(b) Remainder} = \$5.00$$

**4 sharpeners**  
**4 erasers**  
**0 pens**

<p><b>46.</b></p>	<p>Mrs. Bedoe borrowed \$1500.00 at 10% simple interest for 2 years from Easy Credit Union.</p> <p>(a) How much interest did she pay?</p> <p>Answer: \$_____ (2)</p> <p>(b) How much money did she repay ALTOGETHER?</p> <p>Answer: \$_____ (1)</p> <p>(c) Mrs. Bedoe repaid the TOTAL amount in EQUAL monthly payments.</p> <p>How much did she repay EACH month?</p> <p>Answer: \$_____ (2)</p>	<p>(a) Simple Interest = <math>\frac{P \times R \times T}{100}</math>  <math>= \frac{1500 \times 10 \times 2}{100}</math>  <math>= \\$300</math></p> <p>(b) Amount = P + S.I  <math>= \\$1500 + \\$300</math>  <math>= \\$1800</math></p> <p>(c) Installments = <math>1800 \div 24</math>  <math>= \\$75</math></p>	
<p><b>END OF TEST 6</b></p>			