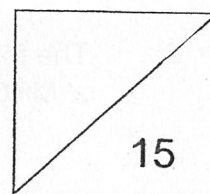


Red Swastika School
Primary 6 Mathematics Milestone Check (1)
Topic : Angles in Geometric Figures



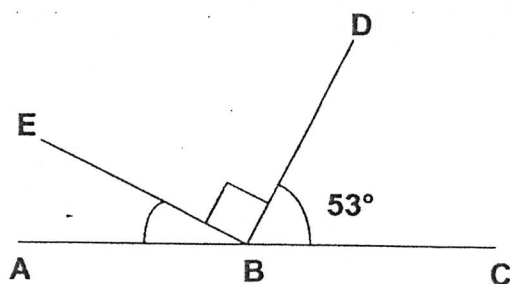
Name: _____ () Date: _____

Class: Pr 6 _____

Write your answer in the space provided. Show all your workings clearly.
The marks for the questions are indicated in the questions.

1. ABC is a straight line. Find the unknown $\angle ABE$.

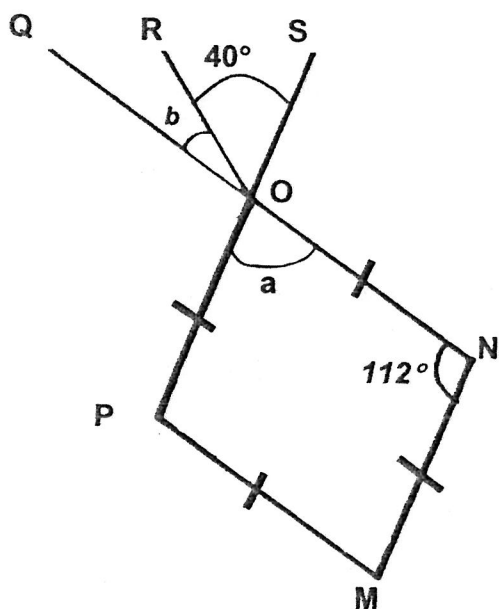
[2m]



Ans: _____^o

2. The following figure is not drawn to scale. MNOP is a rhombus.
 $\angle MNO = 112^\circ$. QN, RO and SP are straight lines. Find $\angle a$ and $\angle b$.

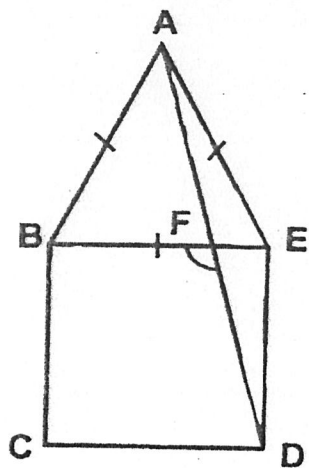
[3m]



Ans: (a) $\angle a$ = _____ [1]

(b) $\angle b$ = _____ [2]

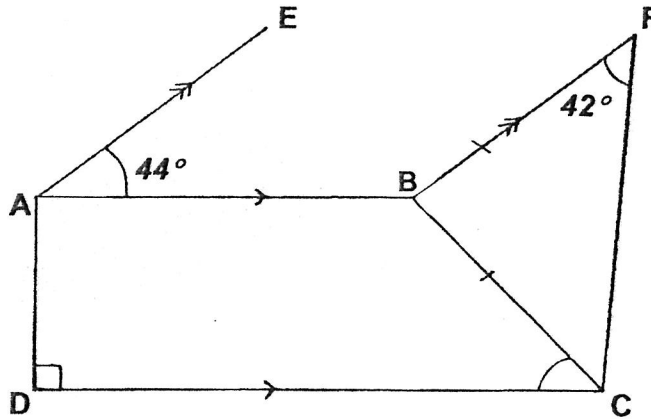
3. In the figure below, ABE is an equilateral triangle and BCDE is a square. [5m]
- (a) Name the angle that is equal to $\angle DAE$.
- (b) Find $\angle BFD$.



Ans: (a) _____ [1]

(b) _____ [4]

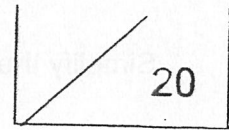
4. The figure below is not drawn to scale. ABCD is a trapezium. AE is a straight line and is parallel to BF. BFC is an isosceles triangle and $BF = BC$. $\angle EAB = 44^\circ$ and $\angle BFC = 42^\circ$. Find $\angle BCD$. [5m]



Ans: _____ [5]

----- End of Paper -----

Red Swastika School
Primary 6 Mathematics Milestone Check (2)
Topic: Fractions and Ratio



Name: _____ ()

Date: _____

Class: Pr 6 _____

For Questions 1 to 4, each question carries 1 mark.
Show your workings clearly and write your answers in the spaces provided.

1. $\frac{7}{12} \div \frac{5}{6} =$ _____

Ans: _____

2. Find the value of $21 \div \frac{7}{9}$.

Ans: _____

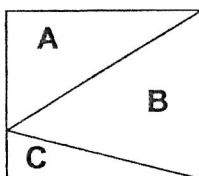
3. Simplify the following.

$$\frac{1}{3} : 3$$

Ans: _____

4. Area of Triangle A is $\frac{3}{8}$ of the area of the rectangle.

What is the ratio of the area of A to the area of B to the area of C?



Ans: _____

For Questions 5 to 8, each question carries 2 marks.
Show your workings clearly and write your answers in the spaces provided.

5. Mother had $\frac{3}{5}$ of a cake. She cut it into equal pieces. Each piece was $\frac{1}{10}$ of the whole cake. How many equal pieces of cake did Mother cut?

Ans: _____

6. The amount of money Henry and Kevin have is in the ratio of 1 : 2.
If Kevin gives Henry \$10, their new ratio would be 3 : 5.
How much did Henry have at first?

Ans: \$ _____

7. The perimeter of a rectangle is 60 cm.
The ratio of its length to its breadth is 5 : 1. Find the area of this rectangle.

Ans: _____ cm²

8. Patrick, Jerry and Muthu shared a sum of money.
The amount of money Patrick and Jerry received was in the ratio 2 : 3.
Muthu received \$500 which was $\frac{2}{3}$ of the sum of Patrick's and Jerry's share.
How much more money did Muthu receive than Jerry?

Ans: \$ _____

Show your working and statements clearly

9. The Lee family had some apples in a box.

Mr Lee took $\frac{1}{2}$ of them but returned 3 apples to the box.

Mrs Lee took $\frac{1}{2}$ of the remainder but returned 2 apples to the box.

Their daughter took $\frac{1}{2}$ of the remainder but returned 1 apple to the box.

There were finally 5 apples left in the box.

How many apples were there in the box at first?

[4m]

Ans: _____ [4]

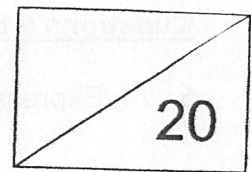
10. A box contained red, blue and purple pens. For every 5 red pens, there were 2 blue pens. For every 3 blue pens, there were 5 purple pens. [4m]
- (a) Find the ratio of the number of red pens to blue pens to purple pens. (Give your answer in the simplest form.)
- (b) When 6 red pens were removed from the box, $\frac{3}{7}$ of the remaining pens were red pens. Find the total number of pens left in the box.

Ans: (a) _____ [1]

(b) _____ [3]

----- End of Paper -----

Red Swastika School
Primary 6 Mathematics Milestone Check (3)
Topic : Percentage



Name: _____ () Date : _____

Class: Pr 6 _____

Questions 1 to 4, each question carries 1 mark.

1. 25% of a number is 63. What is the number?

Ans: _____

2. $\frac{1}{4} + 0.15 + 12\% = \boxed{} \%$

What is the missing number in the box?

Ans: _____

3. Express \$1.60 as a percentage of 80¢.

Ans: _____ %

4. The ratio of girls to boys in a school is 3 : 5.
What percentage of the pupils in the school are girls?

Ans: _____ %

Questions 5 to 8, each question carries 2 marks.

5. Express $12\frac{1}{2}\%$ as a decimal.

Ans: _____

6. After spending 70% of her money, May had \$45 left.
How much did she spend?

Ans: \$ _____

7. Peter sold 20% of his stamps and gave 50% of the remainder to Ali.
What percentage of his stamps did he give to Ali?

Ans: _____ %

8. Ali bought a watch at \$120 after a 20% discount.
How much was the discount?

Ans: \$ _____

Question 9 and Question 10 carries 4 marks each. Show the workings clearly.

9. Stacy had \$100 more than Terry. After spending 60% of her money, Stacy had \$20 less than Terry. How much did Terry have?

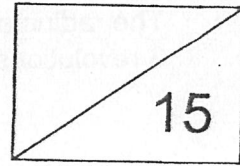
Ans: _____ [4]

10. At Jason's shop, the usual selling price of two similar watches were \$450 each. When he sold one of them at \$450, he earned 50% of what he had paid for it. He sold the other watch at a discount of 20% off the usual price. If he had paid the same amount of money for each watch, how much did he earn altogether?

Ans: _____ [4]

----- End of Paper -----

Red Swastika School
Primary 6 Mathematics Milestone Check (4)
Topic : Circles



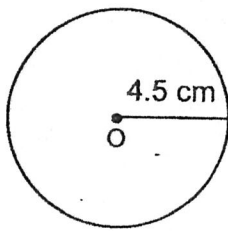
Name: _____ () Date : _____

Class: Pr 6 _____

For Questions 1 to 3, each question carries 2 marks. All workings must be shown clearly.



1. The circle below with point O as the centre of the circle, has a radius of 4.5 cm. Find its circumference. (Take $\pi = 3.14$)

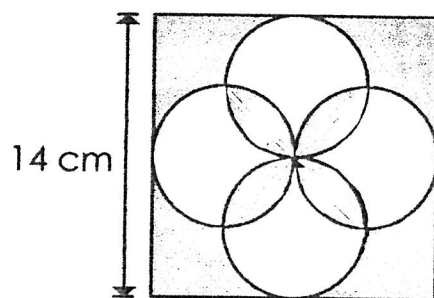


Ans : _____ cm

2. The radius of a wheel is 7 cm. Find the distance covered by the wheel in 3 revolutions. Leave your answer in terms of π .

Ans : _____ cm

3. Find the total area of the shaded parts in the figure below.

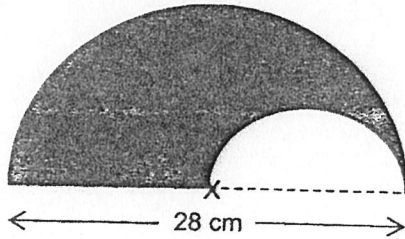


Ans: _____ cm^2

Question 4 carries 4 marks. Question 5 carries 5 marks . All workings must be shown clearly.



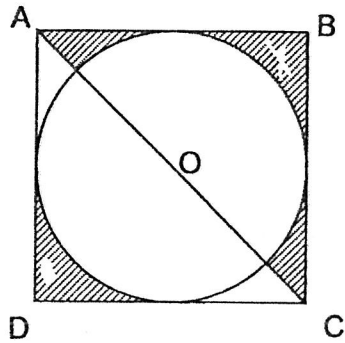
4. The shaded figure is bounded by two semicircles and a straight line. X marks the centre of the straight line. Find the perimeter of the figure. (Take $\pi = \frac{22}{7}$) [4m]



Ans: _____



5. ABCD is a square of side 20 cm. A circle touches the 4 sides of the square as shown. AC is a straight line passing through the centre of the circle O. What is the total area of the shaded parts? (Take $\pi = 3.14$) [5m]



Ans: _____

----- End of Paper -----

YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : RED SWASATIKA SCHOOL
 SUBJECT : MATHEMATICS
 TERM : MILESTONE CHECK (1)

ANGLES IN GEOMETRIC FIGURES

Q1	$180 - (90 + 53) = 37^\circ$	Q2	$180 - 112 = 68$ $68 - 40 = 28^\circ$
Q3	$90 + 60 = 150$ (a) LADE $\frac{180-150}{2} = 15$ $90 - 15 = 75$ $180 - 75 = 105^\circ$ (b)	Q4	$180 - (42 + 42) = 96$ $180 - 44 = 136$ $360 - (136 + 96) = 128$ $180 - 128 = 52^\circ$

FRACTIONS AND RATIO milestone check (2)

Q1	$\frac{7}{10}$	Q2	$21 \times \frac{9}{7} = 27$									
Q3	$\frac{1}{3} : \frac{3}{1}$ $\frac{1}{3} : \frac{9}{3}$ Ans : 1 : 9	Q4	A : B : C 3 : 4 : 1									
Q5	$\frac{3}{5} \div \frac{1}{10} = \frac{3}{5} \times \frac{10}{1}$ = 6	Q6	H + K = Total 1 + 2 = 3 8 : 16 = 24 1u = 10 8u = 10 x 8 = \$80									
Q7	L : B : Perimeter 5 : 1 : 12 12u = 60 5u = $\frac{60}{12} \times 5$ = 25 25 x 5 = 125cm ²	Q8	P : J : P + J 2 : 3 : 5 6 : 9 : 15 M : P + J 2 : 3 10 : 15 10u = 500 1u = \$50									
Q9	5 - 1 = 4 4 x 2 = 8 8 - 2 = 6 6 x 2 = 12 12 - 3 = 9 9 x 2 = 18	Q10	<table><tr><td>R : B</td><td>B : P</td><td>R : B : P</td></tr><tr><td>5 : 2</td><td>3 : 5</td><td>15 : 6 : 10</td></tr><tr><td>15 : 6</td><td>6 : 10</td><td></td></tr></table> R : B + P : Total 3 : 4 : 7 12 : 16 : 28 3u = 6 28u = $\frac{6}{3} \times 28$ = 56 (a) 15 : 6 : 10 (b) 56	R : B	B : P	R : B : P	5 : 2	3 : 5	15 : 6 : 10	15 : 6	6 : 10	
R : B	B : P	R : B : P										
5 : 2	3 : 5	15 : 6 : 10										
15 : 6	6 : 10											

PERCENTAGE (milestone check (3))

Q1	$100\% = 63 \times 4 = 252$	Q2	$\frac{1}{4} + \frac{15}{100} + \frac{12}{100} = \frac{52}{100}$ Ans : 52
Q3	$\frac{1.60}{0.80} \times 100\% = 200\%$	Q4	$8u = 100\%$ $3u = 37.5\%$
Q5	$12.5 \div 100 = 0.125$	Q6	$30\% : 45$ $70\% : \frac{45}{30} \times 70$ $= \$105$
Q7	$\frac{50}{100} \times \frac{80}{100} = \frac{40}{100}$ $= 40\%$	Q8	$80\% = 120$ $20\% = \$30$
Q9	$100\% \text{ of } S = \frac{120}{60} \times 100$ $= 200$ Terry = $200 - 100$ $= 100$	Q10	$150\% = 450$ $100\% = \frac{450}{100} \times 100$ $= 300$ Cost price = 300 Usual selling price = 450 Discount = $450 \times \frac{80}{100}$ $= 360$ 2nd watch = $360 - 300$ $= 60$ $150 + 60 = \$210$

CIRCLES (milestone check (4))

Q1	$\pi d = 3.14 \times 9 = 28.26$
Q2	$\pi d = \pi \times 14 = 14\pi$ $14\pi \times 3 = (42\pi)\text{cm}$
Q3	$3.5 \times 2 = 7$ $\frac{1}{2} \times 7 \times 7 = 24.5$ $24.5 \times 4 = 98$
Q4	$\frac{1}{2} \pi d = \frac{1}{2} \times \frac{22}{7} \times 14 = 44$ $\frac{1}{2} \pi d = \frac{1}{2} \times \frac{22}{7} \times 14$ $= 22$ $28 \div 2 = 14$ $44 + 22 + 14 = 80\text{cm}$
Q5	$20 \times 20 = 400$ $3.14 \times 10 \times 10 = 314$ $400 - 314 = 86$ $86 \div 8 = 10.75$ $10.75 \times 6 = 64.5\text{cm}^2$

2

END

