

INDIAN SCHOOL MUSCAT MIDDLE SECTION FINAL EXAMINATION 2017-18



MATHEMATICS - KEY CUM MARKING SCHEME Code: MWM0102

SECTION A				
Qns	FILL IN THE BLANKS	Marks		
1a)	The reciprocal of $\frac{5}{7}$ is Ans) $\frac{7}{5}$	1		
b)	The decimal number for $6 + \frac{4}{10} + \frac{3}{1000}$ is Ans) 6.403	1		
c)	The perimeter of a square of side 12 cm iscm. Ans) 48	1		
d)	2kg 135g =kg Ans) 2.135	1		
e)	2 minutes 30 seconds = sec Ans) 150 se	1		
	MATCH THE FOLLOWING			
f)	The fraction equivalent to $\frac{4}{8}$ is	1		
g)	3.98 × 1000= ° iii) ² 98	0 1		
h)	2m 5cm =m iv) 2.05	1		
i)	Area of rectangle, its length =5cm and breadth =1.1cm issq.cm ii) 5.5	1		
j)	$1 \div \frac{1}{2} =$	1		
	SECTION B			
2.	Subtract: 10 h 15 min - 4 h 55 min 9h 75 min			
3.	Convert into km and add: 365m and 1230m 365 m = 0.365km			
	$1230m = 1.230km \longrightarrow \left(\frac{1}{2}\right) each$			
	$ \begin{array}{cccc} 0.365 \text{km} \\ +1.230 \text{km} \\ \hline 1.595 \text{km} & & & & & & & \\ & & & & & & & & \\ \hline \end{array} $			
4.	Multiply 345 by 1.2 3 4 5			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
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	$345 \times 1.2 = 414 \longrightarrow$			

	Find the length of a rectangle whose area is 42sq.cm and breadth is 6cm.			
5.	Length = $42 \div 6$ \longrightarrow			
	=7 cm			
6.	Multiply and write the answer in lowest form : $\frac{3}{5} \times \frac{15}{9}$			
	$\frac{3}{5} \times \frac{15}{9} = \frac{3}{3} = 1$	½ 1		
	SECTION C			
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7.	Find the perimeter of a rectangular plot of length 50 m and breadth 35 m			
	$P=(I + b) 2 (1Mark) = (50+35) \times 2 (1Mark) = 85 \times 2 = 170 m (1Mark)$			
8.	a)Find the sum of 345 , 23.06 , 1.567			
	b)write the place value of 6 in 240.065			
	(a) $345 + 23.06 + 1.567 = 345.000 + 23.060 + 1.567$			
	3 4 5 . 0 0 0			
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	3 0 7 . 0 2 7 (1)			
	(b) Place value of 6 = 0.06 (Or any form) (1)			
9.	a)Add $\frac{1}{3}$ and $\frac{2}{5}$			
	b) Divide $\frac{3}{8} \div \frac{1}{2}$.(a) $\frac{2}{5} + \frac{1}{3} = \frac{6}{15} + \frac{5}{15}$ (1) $=\frac{11}{15}$ ($\frac{1}{2}$)			
	(b) $\frac{3}{8} \div \frac{1}{2} = \frac{3}{8} \times \frac{2}{1}$ (1) $= \frac{3}{4}$ $(\frac{1}{2})$			
10.	Adarsh studies 1 hour 15 min in the morning and 1 hour 45 min in the evening.	3		
	Find the total			
	time he spent for studies in a day			
	hr min			
	1 15 +1 45			
	2 hrs 60 min			
	Total time taken by Adarsh = 3 hrs (1)			
	A packet contains 8 pencil boxes. The weight of the packet is 12.128kg,what is			
11.	the weight of one pencil box?			
	Weight of one pencil box = $12.128 \div 8$ (1)			
	=1.516 kg (Division 2 marks)			
12.	The perimeter of a square park is 200 m . Find the area of the park			
	Side = $\frac{P}{4} = \frac{200}{4} = \frac{50 \text{ m}}{4} = \frac{11/2}{4}$ therefore area = side x side =50 x 50 = 2500 sq .m (1 1/2)			
<u></u>	T T INCIDITE AIEA - SINE A SINE -JU A JU - 2JUU SY III (1 /2)			

13.	Mohan baked a cake weighing 3 $\frac{3}{4}$ kg. He divided the cake into 3 equal parts.					
	Find the weight of each part					
	Weight of each part	$= 3\frac{3}{2} \div 3 \qquad \longrightarrow \qquad (1)$				
		15 . 2				
		$=\frac{1}{4}\div 3$ $(\frac{1}{2})$				
		$=\frac{15}{4} \times \frac{1}{2} \qquad \qquad (\frac{1}{2})$				
		$=\frac{5}{1}$				
		4				
		$=1\frac{1}{4}$ kg \longrightarrow $(\frac{1}{2})$				
14.	Gita had ₹ 100 with her. S	$= 3\frac{3}{4} \div 3$ $= \frac{15}{4} \div 3$ $= \frac{15}{4} \times \frac{1}{3}$ $= \frac{5}{4}$ $= 1\frac{1}{4} \times \frac{1}{4} \times \frac$				
	is left with her?					
	Amount Gita had = ₹ 100					
	Amount spent = ₹ 45.5					
	i nerefore amount leπ wit	h her = ₹100 - ₹45.50 – ½ mark				
	- 45.50					
	54.50 1 mark					
		4.50 left with her - ½ mark				
	, , , , , , , , , , , , , , , , , , ,	SECTION D				
15.	Add 6 hours 40 min + 2 h	ours 30 min				
	hrs min					
	6 40	(2)				
	+ 2 30					
	8 70 8 hrs	70 min = 9 hrs 10 min (2)				
16.	16. Find the first 4 equivalent fractions of $\frac{7}{8}$					
	$\frac{7}{8} \times \frac{2}{2} = \frac{14}{16} \qquad \frac{7}{8} \times \frac{3}{3} = \frac{21}{24} \qquad \frac{7}{8} \times \frac{4}{4} = \frac{28}{32} \qquad \frac{7}{8} \times \frac{5}{5} = \frac{35}{40}$ each equivalent fraction – (1mark)					
	caon equivalent naotion	(mark)				
17.						
	The area of a rectangular	garden is 300sq.m and its length is 30m. Find its				
	breadth ,cost of fencing i					
	. $b = 300 \div 30$ ————					
	= 10m	\longrightarrow $(\frac{1}{2})$				
	Perimeter = $2 \times (1+b)$ $\xrightarrow{\left(\frac{1}{2}\right)}$					
	$= 2 \times 40 \qquad \longrightarrow \qquad (\frac{1}{2})$ $= 80 \text{ m} \qquad \longrightarrow \qquad (\frac{1}{2})$					
	= 80 m	$(\frac{1}{2})$				
	Total cost = 80 x100	$\left(\frac{1}{2}\right)$				
	=₹ 8000 <u> </u>	$(\frac{1}{2})$				
	– () 0000 –	$(\frac{1}{2})$				
	The price of a packet of 6	pens is ₹30.60. Find the cost of 4 pens				
18.	Cost of one pen = ₹ 30.60	÷ 6 = ₹ 5.10 (2)				
	Cost of 4 pens = ₹ 5.10 ×	4 = ₹ 20.40 (2)				

10	a)Qubtract 21kg 245g - 5kg 265g		
19.	19. a)Subtract 21kg 345g - 5kg 265g b) Ravi travelled 4km25m by car and 1km 350m		
	by rickshaw. How many kilometers did he travel in all?		
	a) 2 1 kg 3 4 5 g (1)		
	a) $2 1 \text{ kg}$ $3 4 5 \text{ g}$ \longrightarrow (1) -5kg $0 8 0 \text{ g}$ \longrightarrow (1)		
	$\frac{3 kg}{1.6 kg} \frac{2 \sqrt{3} g}{1.6 kg} \qquad (1)$		
	1 0 kg 0 0 0 g (1)		
	b) Total distance = $4 \text{ km } 0 2 5 \text{ m}$ (1)		
	+ 1km 3 5 0 m		
	4		
	$5 \text{km} 3 7 5 \text{m} \left(\frac{1}{2}\right)$		
	= 5.375 km $(\frac{1}{2})$		
20.	Which one has greater volume ?		
	A cuboid of length 8 cm, breadth 6 cm and height 4 cm OR a cube of each	4	
	edge 7 cm		
	Volume of cuboid = $ x b x h $ (½) = $8 x 6 x 4$ (½) = 192 cu.cm (½) Volume of cube = $a x a x a = (1/2)$ 7 x 7 x 7 (½) = 343 cu.cm (1/2)		
	343 > 192 (1/2) Therefore, cube has greater volume. (1/2)		
21.	Therefore cube has greater volume (1/2) Arrange these fractions in ascending order:		
21.		4	
	$\frac{1}{2}$, $\frac{2}{5}$, $\frac{1}{3}$, $\frac{5}{6}$ LCM = 30 $(\frac{1}{2})$	•	
	2 5 3 6		
	$\frac{1}{2} = \frac{15}{30}$, $\frac{2}{5} = \frac{12}{30}$,		
	$\frac{1}{2} - \frac{1}{30}$, $\frac{1}{5} - \frac{1}{30}$,		
	1 _ 10 5 _ 25 (1)		
	$\frac{1}{3} = \frac{10}{30}$, $\frac{5}{6} = \frac{25}{30}$ $(\frac{1}{2})$ each		
	$\frac{10}{30} < \frac{12}{30} < \frac{15}{30} < \frac{25}{30}$ (1)		
	30 30 30 30 (1)		
	$=\frac{1}{3} < \frac{2}{5} < \frac{1}{2} < \frac{5}{6} \longrightarrow \left(\frac{1}{2}\right)$		
	a) Divide 8.92 by 8		
22.	b)Which is greater: 7.907 OR 17.077	4	
	a) 8.92 ÷ 8 = 1.115		
	First division –(1)		
	Each step $(\frac{1}{2})$		
	Answer - $(\frac{1}{2})$		
	Total -3 marks for division		
	b)Greater =17.077 (1)		
23.	A bucket had 15 litres 750ml of water. To water the plants Rama poured out 3		
	litres 450ml in the morning and 2 litres 300ml in the evening. How much water is		
	left in the bucket?		
	Total quantity of water poured out = 3 litres 450 ml + 2 litres 300ml (1)		
	= 5 litres 750 ml		
	Quantity of water left in the bottle = 15litres750ml − 5 litres 750 ml → 1		
	= 10 litres (1)		

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