STD 4 Scholarship Exam Maths (2003) (7 solved)

- $3. \quad 205 \times 25 = ?$
 - (1) 5025

(2) 5125

(3) 50125

(4) 51025

205 * 25 = (200 + 5) * 25

=5125

(Whole process should be done mentally without writing anything on paper.)

- 17. The cost of 6 cups is Rs. 30 P 60, then what is the cost of each cup?
 - (1) Rs. 5 P 10

(2) Rs. 15 P 30

(3) Rs. 5

(4) Rs. 5 P 60

Rs 30, P60 = P(30*100 + 60) = P(3000 + 60) = P(3060)

So cost of each cup = P(3060)/6 = P(510) = Rs. 5, P10

(Again the process should be done mentally without writing anything on paper.)

- 32. 999 + 111 = ?
 - (1) 1010
- (2) 1100
- (3) 1000
- (4) 1110

999 + 111 = 999 + 1 + 110 = 1000 + 110 = 1110

- 35. Which digit is in the hundreds place, in the addition (1234 + 2341)?
 - (1) 5
- (2) 7
- (3) 3
- (4) 2

No carry in units and tens place addition (4+1 and 3 + 4). Hence simply add hundreds place numbers, i.e. 2+3=5

41. John started ploughing the field at 8 O'clock before noon. He went for lunch at half past one after noon. For how many hours did he work?

(1) Five and a half

(2) Six and a half

(3) Seven

(4) Nine and a half

8.00 AM to 12.00 AM = 4 hours

12.00 AM to 01.30 PM = 1 Hour, 30 Mins

In all, 5 hours, 30 mins.

- Gaurav Singh bought a pen worth five and a quarter rupees, an ink-bottle worth six and a half rupees and a ruler worth one and a half rupee. How much money should he give to the shopkeeper ?
 - Thirteen and a half rupees
 Thirteen rupees

 - (3) Thirteen and a quarter rupees
 - (4) Twelve and three quarters rupees

 $total \ cost = 5.25 + 6.5 + 1.5$

Add up paises part first, that comes to be one and quarter Rs, pass on Re 1 to Rs section, That will make 5 + 6 + 1 + 1 = Rs 13. Hence ans is Rs 13, P25.

49.
$$3 \times (7 + 3) - (27 + 9) \times 10 = ?$$

(1) 0 (2) 20 (3) 60 (4) 6

Solve the brackets first.

Then do the multiplications

30 - 30

Then do the subtraction

30 - 30 = 0

STD 4 Scholarship Exam Maths (2005) (17 solved)

(1) 1599

(2) 3599

(3) 4599

(4) 4598

No need to do actual addition. Add units places, that comes out to be 3 + 6 = 9.

Now apply approximation.

Only one option has addition > 4500 and 9 at the units place i.e. option 3

(1) 4719

(2) 4713

(3) 2526

(4) 4799

Units place 6-3=3. Only one option has 3 at the units place, i.e. option 2.

(1) 132

(2) 124

(3) 13

(4) 114

It's better if you can start with 130*4 = 520. Just look at the numbers. Try to find a number that can take you closer to the answer. Here this number is 130. Now as 536 > 520, your answer is also greater than 130, and with 6 at the units place in 536, answer has to have either 9 or 4 at its units place. That solves your problem, i.e. option 3.

- 21. If we buy three and a half litre milk daily, what is the quantity of milk is bought in 5 days?
 - (1) Fifteen and a half
- (2) Seventeen

(3) Fifteen

(4) Seventeen and a half

3.5 * 5

Start with 3.5 * 4 = 14, and 3.5 litres of 5^{th} day. That gives the answer 17.5.

22. 207 × 12 =.....

(1) 2404

(2) 2472

(3) 2460

(4) 2484

207*12 = (200 + 7)*12 = 200 * 12 + 7 * 12 = 2400 + 84 = 2484

Try to do whole process mentally.

- 23. If 10 kg 120 gms sugar is equally distributed among 4 people, what is the share each one will get ?
 - (1) 2 kg 430 gms
- (2) 25 kg 30 gms
- (3) 20 kg 530 gms
- (4) 2 kg 530 gms

Two approaches are possible. Read both and follow whichever suits you more!

- Divide 10Kg into 4 parts, each part will be equal to 2.5Kg
 Now divide 120Gms into 4 parts, each part will be 30Gms.
 Add two, that will give the answer = 2.5Kg + 30Gms = (2500 + 30)Gms = 2530Gms = 2Kg 530Gms
- 10 Kg 120 Gms = (10000 + 120)Gms = 10120 Gms
 Divide this number by 4 to get answer = 2530 Gms = 2Kg 530 Gms

You may tend to feel that approach 2 is simpler than approach 1. But Its not that. if your fundamentals are crystal clear approach 1 will give a faster answer.

25.	If 4	m 85 cm	long string	g is cut f	rom t	he 7	metre l	ong st	ring, w	hat	
	is th	ne length	of the rem	naining p	ortion	of th	e strin	g ?			
	(1)	3 m 15	cm	(2)	2 m	15 cr	n				
	(3)	15 m 15	cm	(4)	3 m	85 cr	n ·				
-		_	il lhelp. Start nation i.e. 7m						ı 5m. An	other 2m	and you
26.	It w		y on 10th	June, 20	003, v	vhich	day wa	as on 1	9th Ju	une,	
	(1)	Wednesd	lay	(2)	Thu	sday					
	(3)	Friday		. (4)	Tues	day					
Divide	e it by 7		9-10 = 9 remainder. I			inswer	is Thurso	day.			
27.			ng wire is each piece		-		have ed	qual pi	eces. F	ind	
	(1)/	56		(2)	68					,	
	(3)	63		(4)	54						
Cut a	t 8 plac	es and you w	vill get 9 piec	ces. That is	the key	here.5	04/9 = 5	6.			
29.		-	orth 36 coin					-			
	(1)	90		(2)	9						
	(36)	900		(4)	19						
36 co	ins of 5	0 paise = Rs	18								

Rs 18 = 9 coins of Rs 2

32. The length of a rectangular garden is 45 metres. To have a seven layered fencing around a rectangular garden, 952 metre wire is required. Find the breadth of the garden.

(1) 46

(2) 30

(3) 23

(4) 27

Length of one layer of fencing = 952/7 = 136 m

So perimeter of the garden = 136 m

Perimeter of a rectangle = 2*length + 2*breadth

So 136 = 2*45 + 2*breadth = 90 + 2*breadth

(Subtracting 90 from both the sides)

136 - 90 = 90 + 2*breadth - 90

So 46 = 2*breadth

(Dividing both the sides by 2)

46/2 = (2*breadth)/2

So breadth = 23 m.

35. There are 1,275 trees in a garden. Out of them 850 are of mango, 75 are of coconut and remaining are of Jackfruit. What is the number of Jackfruit trees in that garden?

(1) 350

(2) 925

(3) 450

(4) 250

Adding up 850 and 75 first will help. 850+75=925.

Now subtract. 1275 – 925 = 350

37. Ajit has 64 coins worth 25 paise, and some 50 paise coins. He has total amount of Rs. 100 with him. What is the total number of coins he has?

(1) 332

(2) 168

(3) 232

(4) 102

64 coins worth 25 Paise = Rs 16

Amount in 50 Paise coins = 100 - 16 = 84

Rs 84 = 84*2=168 coins of 50 Paise

40. 18 beads make one necklace. Like this 32 necklaces are made. If in each necklace, 8 beads are put, how many necklaces can be made out of all these beads?

(1) 58

(2) 82

(3) 62

(4) 72

Total number of beads available = 32*18

If each necklace has 8 beads, no of necklaces = (32*18)/8 = 4*18 = 72

42. The product of the numbers $215 \times 43 = \dots$

(1) 7310

(2) 1505

(3) 9245

(4) 8245

Approximate!

215 * 43 > 210 * 40 So 215 * 43 > 8400. Did you get the answer?

46.
$$\frac{6000}{-1098}$$
 The answer is :

Forward count!

- 50. Pratibha had 1940 apples. She packed them as 36 in one box. She sold 20 boxes of apples and threw away 72 spoilt apples. Then find out that how many apples were left with her?
 - (1) 1248

(2) 1292

(3) 1148

(4) 1192

Total apples sold = 36*20 = 720

Add to these the spoilt ones, 720+72 = 792

Now forward count!

So Ans is 8 + 200 + 940 = 1148

STD 4 Scholarship Exam Maths (2006) (9 solved)

1. $406 \times 56 =$

(1) 4466

(2) 22736

 $(3) \cdot 22336$

(4) 2036

Can't Approximate! Two options are really close - 22336 and 22736.

406*56 = (400 + 6) * (50 + 6) = 400*50+400*6+6*50+6*6=20000+2400+300+36=22736

10. On dividing a number by 9, the quotient is 8 and the remainder is

5. What is the number?

(1) 72

(2) 67

(3) 77

(4) 53

9*8+5=72+5=77

13. 901 - 888 =......

(1) 123

(2) 187

(3) 13

(4) 103

Forward count!

888 + 12 = 900, 900 + 1 = 901

Ans is 12+1=13

14. Ram had 42 beads. He gave 7 beads to his friend. His mother gave him twice the number of beads that were left with him. How many beads does Ram have now?

(1) 105

(2) 70

(3) 98

(4) 77

After giving away 7 beads Ram will have 42 - 7 = 35 beads

Mother must have given him 35*2 = 70 beads

- 18. If 1 litre 250 ml of milk is bought daily, then how much milk is bought in a week?
 - 7 litres
- (2) 7 litres 250 ml
- (3) 7 litres 750 ml
- (4) 8 litres 750 ml

Divide and conquer!

250 ml * 7 = 1750 ml = 1 litre, 750 ml

1 | * 7 = 7 | litres

Total 8 Litre 750 ml

Alternately - 1 L, 250 ml = 1250 ml, 1250 * 7 = 8750 ml = 8 L, 750 mL

You may tend to feel that approach 2 is simpler than approach 1. But Its not that. if your fundamentals are crystal clear approach 1 will give a faster answer.

- 23. In a village, there are 6718 males and 5829 females. If there are 7548 literates, then how many illiterates are there in the village?
 - 4999

(2) 7059

(3) 20095

(4) 8437

6718 + 5829 - 7548

Approximate!

6718 + 5829 < 6800 + 5900

6718 + 5829 < 12700

12700 – 7548 and your answer can't go beyond 6000!

- 36. How much sugar is required to be distributed among 3 children, i each gets 750 gms of sugar ?
 - (1) 2.250 kg

(2) 2.500 kg

(3) 22.50 kg

(4) 225.0 grams

0.75*3 = 2.25 (In a flash this should come in your mind)

40.	48 days	=	how	many	weeks	and	how	many	days.
-----	---------	---	-----	------	-------	-----	-----	------	-------

- (1) 6 weeks
- (2) 6 weeks, 6 days
- (3) 8 weeks, 4 days
- (4) 6 weeks, 5 days

Divide 48 by 7

Division is 6, remainder 6

Hence 48 days = 6 weeks, 6 days.

- 50. If 3rd of April falls on Saturday, what will be the date of the last Saturday of the same month?
 - (1) 31

(2) 17

(3) 24

(4) 29

3 -> 10 -> 17 -> 24 are the dates of Saturdays.

STD 4 Scholarship Exam Maths (2007) (10 solved)

Quarter past one hour =.....minutes.

6.

· (1)

(3)

75 ·

85

Quart	ter hour	= 15 min	utes							
Hence quarter past one hour = 75 minutes										
7.	What	t is sun	n of odd pri	me numbe	ers betwe	en 1 to	10 ?	7%.		
-	(1)	25		. (2)	17			-		
	(3)	15		(4)	16					
3 + 5	+ 7 = 15	(2 is an e	ven prime num	ber)						
10.			lk is distribut ch child get		among 4	5 childrer	n then ho	w much		
	(1)	200 ml		(2)	2000 ml					
	(3)	20 ml		(4)	2 ml					
9 litre	s = 9000	0 mL								
9000/	/45 = 20	0 mL								
14.		to Mu	are equally imbai for s							
	(1)	120		(2)	1200					
	(3)	900		(4)	1500					
				(www.mah	aedutechn	et.org)				

(2) 125

(4) 115

Guavas in each box = 1800/15 = 120

Guavas in 10 boxes = 10*120 = 1200

- 23. 109 × 78 =....?
 - (1) 1635



(3) 8502

(4) 7402

 $109 * 78 = (100 + 9) * 78 = 7800 + 9*78 > 7800 \dots$ did you get the ans?

- 24. A milk collection centre collects 805 litres cow milk and 915 litres bufallo milk. How much of milk is left if 1575 litres of milk is sold?
 - (1) 155

(2) 145

(3) 1720

(4) 255

total milk = 805 + 915 = 1720 Litres

milk left = 1720 - 1575

Forward count. 1575 + 25 = 1600, 1600 + 120 = 1720

milk left = 120 + 25 = 145 litres

- 25. I have equal number of 1 rupee, 2 rupee and 5 rupee coins. If the total amount with me is Rs. 40, then how many total coins do I have ?
 - (1) 5

(2) 10

137 1

(4) 8

Use method of elimanation! Options 10, 15 and 8 are out as 10*5 = 50 > 40, 15*5 = 75 > 40, 8*5 = 40(no room for Rs 2 and Re1)

26. How much salt is required to fill 120 salt bags of 250 gm each?

(1) 3000 kg

(2) 300 kg

(3) 3 kg

(4) 30 kg

120*250 = 30000 Gms = 30 Kg

Alternately each bag is quarter Kg, 4 bags = 1 Kg, 120 bags = 30 Kg.

27. 2 kg 2 gm = 2 kg.

(1) 2.2

(2) 2.02

(3) 2.002

(4) 2.0002

Remember 2 Gm = 2/1000 Kg = 0.002 Kg, hence ans is 2.002 Kg

45. There are some 5 rupee and some 10 rupee notes worth Rs. 135. Then how many five-rupee notes can be there in this amount?

(1) 27

(2) 12

(3) 8

(4) 15

Method of elimanation revisited!

Number of Rs 5 notes has to be odd. Why?

As the amount is odd and we have Rs 10 notes other than Rs 5 notes!

27*5 = 135, hence option 1 will fufill the amount that is against the question statement 'some Rs 10 notes'. Hence the ans is option 4!

STD 4 Scholarship Exam Maths (2008) (3 solved)

- 24. If four and a half litres of milk is taken daily, then how many litres of milk will be taken in one week?
 - (1) Twenty nine and a half
 - (2) Thirty one and a half
 - (3) Thirty six
 - (4) Thirty and a half

Divide the problem in two parts. four litres and half litres.

4*7 = 28 litres

half * 7 = 3.5 litres

Total 31 and half litres

- 31. Three-fourth part of a bucket having capacity of 20 1 is filled with water. How much more litre of water will be required to fill the bucket completely?
 - (1) 15

(2) 10

(3) 20

(4) 5

 $3/4^{\rm th}$ of the bucket is filled with water. Hence $1/4^{\rm th}$ of the bucket is empty.

 $1/4^{th}$ of 20 = 5. So 5 litres of water is required.

- 38. If 15 kg 600 gm rice is equally distributed among six persons, how much rice will each person get ?
 - (1) 3 kg 600 gm
- (2) 2 kg 600 gm
- (3) 1 kg 600 gm
- (4) 2 kg 500 gm

15 Kg 600 Gms = 15600 Gms

15600/6 = 2600 Gms = 2 Kg 600 Gms

Each person will get 2 Kg 600 Gms of rice.

9402

-3288 What is the answer for this subtraction?

(1) 6224 (2) 6824
(3) 6114 (4) 5290

Carry at tens place, hence 4-2-1 = 1 at the hundreds place! So ans is 3. (no need to do actual subtraction)

STD 4 Scholarship Exam Maths (2009) (9 solved)

(1) 2329

(2) 2312

(3) 2319

(4) 2315

- 12. Shubham dug a pit of 7 m 95 cm along a road, and Ramesh dug 9 m 7 cm pit after it. Then what will be the length of the pit dug?
 - (1) 17.65 m
- (2) 17.650 m
- 907

- (3) 17.02 m
- (4) 17.20 m

		7	9	5
+		9	7	0
	1	7	6	5

Total length = 17.65 m

13. 9 Hrs 41 Min = ? Minutes

(1) 581

(2) 571

(3) 941

(4) 131

9Hrs = 9*60 = 540 Mins, so total mins = 540 + 41 = 581

24. 1 Hundred × 8 Tens = How many Tens ?

(1) 80

(2) 8000

(3) 8

(4) 800

1 Hundred * 8 Tens = 100 * 80 = 8000 = 800 Tens

26. If trees are planted at a distance of 2.5 m on both the sides of a road of 25 km, then how many trees will be planted?

(1) 20000

42) 20002

(3) 10000

(4) 10001

As the first tree will be planted at distance 0, 10001 trees on single side, 20002 trees on both sides.

29. Shyam bought a compass box for Rs. 32, a note-book for Rs. 11.25 and 2 pens worth Rs. 5.50 each. When he gave a 100 rupee note to the shopkeeper, how many rupees will the shopkeeper return him?

(1) 51.25

(2) 54.25

(3) 45.75

(4) 48.75

32.00 + 11.25 + 2*5.50 = 32.00 + 11.25 + 11.00 = 54.25

100.00 - 54.25=45.75

30. In an example of division sum, if the dividend is 108, divisor 15 and the remainder is 3, then what will be the quotient?

(1) 18

(2) 8

s (3)

(4) 9

dividend =divisor * quotient + remainder

(subtract 3 from both the sides)

$$108 - 3 = 15 * quotient + 3 - 3$$

105 = 15 * quotient

(divide by 15 on both the sides)

105/15 = (15* quotient)/15

quotient = 7

38. The sum of the ages of Sameer and Raju is 35 years. If Raju is younger than Sameer by 7 years, then what is Sameer's age?

- (1) 28 years
- (2) 14 years
- (3). 21 years
- (4) 17 years

Assume Samir's age is x, so Raju's age will be x - 7

Sum of their ages = x + x - 7 = 35

Hence 2*x - 7 = 35

(Add 7 on both sides)

$$2*x - 7 + 7 = 35 + 7 = 42$$

Hence 2 * x = 42

(Divide by 2 on both sides)

(2*x/2) = 42/2 so x = 21, so Samir's age is 21.

45. The capacity of a bottle is 750 ml. How many bottles will be required to fill 9 litres of medicine ?

(1) 7

- (2) 9

(3) 10

-(4)-12

1 bottle = 750 mL

4 bottles = 3000 mL = 3 litres

for 9 litres, 4*3 = 12 bottles are required.

50. If each child collects 49 seeds, then how many seeds will be collected by 346 students of a school?

(4) 16954

(2) 12845

(3) 18994

(4) 16054

346 * 49 = 346 * (50 - 1) = 346*50 - 346 = 17300 - 346 = 16954