Set 17

Subject: Mathematics

Grade: 8th

| S.N Folder Fopic Number & Opic Question Code 1 3_19 Playing Mathematics with numbers 2766 | | | ring 1 1bers | Question with The digits 1 to 8 Razaq's 8-digit p the first three d the last 3 digits. number come to two consecutive Which of the fol number? | Answer Options appear once each in whone number. The sum of igits is the same as that of All the even digits in the ogether. The largest total of digits in the number is 13 lowing is Razaq's phone | Image (If Any) | Correct (Option- A,B,C,D) C | Answer |
|---|--|---------|--------------------|--|---|-------------------------|--------------------------------------|--------|
| | | | Ontion | <u>ς Δ</u> | Answer Options Options B | Options C | Ontions | |
| | | Options | | 3 ~ | | options c | D | |
| | | | 374268 | 51 | 37642851 | 37462851 | 37462581 | |
| 2 3_19 Playing with Mathematics numbers 2763 | | | | Between 1 and there which leaven and also when c | 1 100, how many whole nun ve a remainder 1 when div livided by 10? | nbers are ided by 6, | 1 | B |
| | | | | | Answer Options | | | |
| | | | 0 | ptions A | Options B | Options C | Options I |) |
| | | | | 4 | 3 | 2 | 1 | |

| 3 | 5_29 & | Playing with | If m and n are two numbers such that 0 < m < 1 and - | | Α |
|---|--------|--------------|--|--|---|
|---|--------|--------------|--|--|---|

| - | | | | | | | | | | | | |
|---|---|--|----------------|-------------|---|---|------------|-----------------|--------------------|---------------------------------|-----|---|
| | | 1693 | numbers | | 1 < n < 0, then their product will be | | | | | | | |
| | | | Answer Options | | | | | | | | | |
| | | | Op | otions A | | Options B | 0 | ptions C | | Options D | | |
| | | | ar | number betv | veen | a number betwee | n a | number bet | ween | a number less | | |
| | | | 0 a | and -1 | | 0 and 1 | -1 | and -2 | | than | | |
| | | | | | | | | | | –2 | | |
| | 4 | 5_26& | Play | /ing with | Startin | g from 1, what will | be sum o | of the first 25 | odd | | | С |
| | | 1702 | nur | nbers | natura | l numbers? | | | | | | |
| | | | | | | Answe | r Options | 5 | | | | |
| | | | | Options A | | Options B | Ор | tions C | Options D | | | |
| | | | | 25 | | 125 | 625 | 5 | 2500 | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | 5 | 5_26 & | Pla | aying with | ying with Neeraj puts a new combination lock on a | | | | | | | С |
| | | 1703 | numbers | | cupboard. The lock has 3 rotating rows with | | | | | | 2 | |
| | | | | | the digits 0 to 9 on each row. The correct 3- | | | | | | 1 | |
| | | | | | frame in order to enon the lock A month | | | | 6 | $\frac{9}{2}$ 0 1 $\frac{2}{2}$ | 1 | |
| | | later Neorai forgets the code. He tries all | | | | | | | 7 8 9 0 2 1 5 6 | 1 | | |
| | | | | | possibl | e combinations one | by one. | and does | | 4 5 0 | | |
| | | | | | not tr | y any combinatio | n twice. | If each | Alignment of | digits for the code | 084 | |
| | | combination takes one second to try, what is | | | | | | | | | | |
| | | | | | the M | AXIMUM amount | of time | he might | | | | |
| | | | | | have to | spend before the l | ock opens | s? | | | | |
| | 6 | 5_29 | Play | ying with | After th | After this, Neeraj decides to change the combination on the | | | | | | |
| | | Mathematics | numbers | | lock su | ch that the sum of t | he three o | digits in the c | code is 3, | | | |
| | | 1704 | | | his lucky number. How many different possible codes could | | | | | | | |
| | | | | | ne cho | ose from? | A | | | | | |
| | | | | | | | Answer C | Options | | | | |
| | | | | Option | | Options B | | Options C | | Options D | | |
| | | | | 1 | U | 6 | | | 4 | | პ | |
| | | | 1 | | | | | | | | | |

| 7 | 5_28 | Playing | What will be the value of (3 + 2) times (10 -4) | | В |
|---|------|---------|---|--|---|
|---|------|---------|---|--|---|

| Mathematics | | with numbers | | divide 2 & | -1 | | | | |
|-------------|------------------------------|---|------------------|--|--|------------|-------|------------------|------|
| | 10030 | | | | Answer C |)ptions | | | |
| | | | Opti | ons A | Options B | Optio | ons C | Optio | ns D |
| | | | | 8 | 14 | | 15 | | 30 |
| 8 | 5_28 Mathematics 10050 | Playing with numbers | | Altaf picked up two number cards from the four cards shown below. He found that one of the remaining numbers was the sum, and the other was the difference of the two numbers he had picked | | | | | C |
| | | | | ÷ | Answer C | ptions | ÷ | | · |
| | | | Opti | ons A | Options B | Optio | ons C | Optio | ns D |
| | | | 1 and 2 | | 2 and 5 2 and 3 | | d 3 | 5 and 3 | |
| 9 | 5_28 Mathematics 10069 | Playing with numbersGina ha 3-digit How m using the | | Gina has a br 3-digit code u How many di using these fo | Gina has a brief case which she can lock using a 3-digit code using any of the digits 1, 2, 3 and 4. How many different 3-digit codes can she form using these four digits? | | | | В |
| | | | | | Answer C | ptions | | | |
| | | | Options A | N Contraction of the second se | Options B | Options C | | Options D | |
| | | | 3 × | ; 4 | 4 × 4× 4 | 3 × × 3 | 3 × 3 | 3 + 3 + 3 | |
| 10 | 5_28 Mathematics 10070 | PlayingA player's Twitheach turn'snumbersthe followinrounds of th | | A player's TO each turn's so the following rounds of the | OTAL score is calculated by adding score to the previous total. Which of g could be Priyanka's score after 4 be game? | | | D | |
| | | Answer Options | | | | | | | |
| | | | Options A | l | Options B | Options C | | Options D | |
| | | | 6 | | 88 | 145 | | None | |

| 11 | 5_28 Mathematics 10071 | Play with num | ying h nbers | What could be the MAXIMUM possible difference between the total scores of two players after 10 rounds of this game? | | | | | В | | |
|----|------------------------------|---------------------------|--------------------|--|--|---|---------|-----|---------|--|--|
| | 10071 | | | | Answer (| Options | | L. | | | |
| | | | Opti | ons A | Options B | Optio | ons C | Opt | tions D | | |
| | | | | 990 | 980 | | 970 880 | | 880 | | |
| 12 | 5_29 Mathematics 11400 | Playing with numbers | | At any time, the SUM OF THE DIGITS displayed can be calculated. For example, the sum of the digits at 1:25 is 1 + 2 + 5 = 8. At 11:45, it is 1 + 1 + 4 + 5 = 11. At what time will the sum of the digits in the time displayed be MAXIMUM? | | | D | | | | |
| | | | | Answer Options | | | | | | | |
| | | | Opti | ons A | Options B Option | | ons C | Opt | ions D | | |
| | | | 12:00 | | 11:59 | 10:59 | | | 09:59 | | |
| 13 | 5_29 Mathematics 11401 | 29 Playin matics numbe | | At 1:01, 2:2 same FORW 12:00 noon the clock sh backwards a display a ze it, hence 1:0 should not. | 2, 3:53, etc. the time read (ARDS as well as BACKWA to 11:59 pm, how many t ow a time reading the sar and forwards? (The clock ro before hours that do no 01 should be counted, wh | s the RDS. From imes will ne does not ot require ile 1:10 | | | C | | |
| | | | | | Answer (| Options | | | | | |
| | | | Optio | ons A | Options B | Optio | ons C | Opt | tions D | | |
| | | | | 12 | 24 | | 57 | | 71 | | |

| 14 | 14 5_26 Mathematics | | ng with bers | -8 - (-4) &di | -8 - (-4) ÷d by (-2) is equal to | | | | С | | |
|----|------------------------|----------------------------|---------------------------------|--|--|------------------|-----------|---------------|-----------|--|--|
| | 1665 | | | | Answer Options | | | | | | |
| | | Or | | tions A | Options B | Options C | | Optio | ns D | | |
| | | | | -10 | -6 | 2 | | 6 | | | |
| 15 | 5_29 & 11798 | Playing with numbers | | What is the quotient and remainder when 7799 is divided by 19? | | | | | D | | |
| | | | | | Answer O | ptions | | | | | |
| | | | | tions A | Options B | Optio | ns C | Optio | ns D | | |
| | | | Quotient = 41, Remainder = 0 | | Quotient = 41, Remainder | Quotient = 41.4, | | Quotie | nt = 410, | | |
| | | | | | = 9 | Remair | nder = 14 | 1 Remainder = | | | |