



BRAIN BOOSTER

1. If sum of $\overset{1}{A}\overset{2}{B}\overset{3}{C} = 6$, $\overset{4}{D}\overset{5}{E}\overset{6}{F} = 15$ and $\overset{7}{G}\overset{8}{H}\overset{9}{I} = 24$, what will be the sum of $\overset{22}{V}\overset{23}{W}\overset{24}{X}$?

69





2. If $C - B = 1$, $D - C = 2$, $E - D = 3$ and so on, what will be $H - G = ?$





6



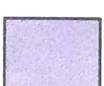
3. If tar = rat, look = kool and pool = loop, what will you write for TRAMS and RATS?

SMART and STAR

4. Each symbol represents a different number. The totals are given. Find the value of each symbol.

(i)  +  +  = 18  = 6

(ii)  +  +  = 12  = 2

(iii)  +  = 6  = 4

5. Insert the missing numbers.

(i)

| | | |
|------|---|-----|
| 10.5 | ? | 1 |
| 9 | | 1.5 |
| 7.5 | | ? |
| | 6 | 4.5 |

(ii) *decrease/increase*

| | | |
|----|----|----|
| 18 | ? | 20 |
| 17 | | 21 |
| 19 | | 19 |
| | 18 | 20 |

(iii) *numbers end with 2*

| | | |
|----|----|----|
| 72 | ? | 2 |
| 62 | | 12 |
| 52 | | 22 |
| | 42 | 32 |

(iv) *add 5 clockwise*

| | | |
|----|----|----|
| 48 | ? | 13 |
| 43 | | 18 |
| 38 | | 23 |
| | 33 | 28 |

(v) *add 4 anticlockwise*

| | | |
|----|----|----|
| 36 | ? | 64 |
| 40 | | 60 |
| 44 | | 56 |
| | 48 | 52 |

(vi) *Table of 5*

| | | |
|----|----|----|
| ? | 40 | 5 |
| 35 | | 10 |
| 30 | | 15 |
| | 25 | 20 |

1. Write + or - in the blank boxes to get the given answer.

| | | | | | | | | |
|---|---|---|---|---|---|----|---|---|
| 5 | + | 5 | + | 3 | - | 10 | = | 3 |
|---|---|---|---|---|---|----|---|---|

If you add up all the digits from 0 1 2 3 4 5 6 7 8 9, you will get 45. If instead you multiply all the digits, will the product be more or less than 100?

less than 100

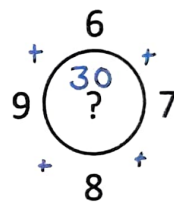
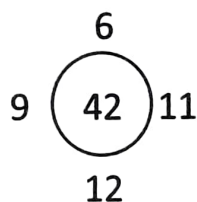
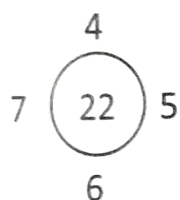
2. Which of the following sets is exactly similar to the set 9, 81, 90 ?

(i) 7, 42, 49

(ii) 6, 36, 60

(iii) 8, 48, 64

3. Look at the pattern and fill in the missing number in the circle.



4. The number 45 is a unique number in the sense that it is a sum of numbers from 1 to 9.

$1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 = 45$

Try to find four other ways to make a sum of 45 with consecutive numbers.

(i) Adding two consecutive numbers: 40 + 5 = 45

(ii) Adding three consecutive numbers: 20 + 20 + 5 = 45

(iii) Adding five consecutive numbers:

10 + 10 + 10 + 10 + 5 = 45

(iv) Adding six consecutive numbers:

10 + 10 + 10 + 10 + 3 + 2 = 45

5. If $A = Z$, $B = Y$, $C = X$ and so on, how will you write SMILE? HNR OV