## Reverse Averages: Range, Mode, Median

6
8
9
6
7
9
5

1. What is the mode?
2. What is the range?
3. What is the median?
$A, B$ and $C$ are sets of three single digit cards.
Set A has the same total as Set B.
Set $B$ has the same median as Set $A$.
4. Complete the cards in set B


Set C has the same total as Set A.
Set $C$ has double the range as Set B.
5. Complete the cards in set C

6. There are four single digit cards. The sum of the cards is 25 and the median is 7 .
Complete the cards with a possible solution.

7. A magician is planning a magic trick with cards numbered from 1-10, however he wants to make the pack biased. His pack of cards to have a mode of 6 but have a total of 29.
Complete the cards with a possible solution.

8. The magician now wants five cards to have a total of 35 and a range of 8 .
complete the cards with a possible solution.


| Skill | Questions | Total Marks | Available <br> Marks |
| :--- | :--- | :--- | :---: |
| Averages from a list of data. | $1,2,3$ |  | $\mathbf{3}$ |
| Reverse Median | 4,6 |  | $\mathbf{4}$ |
| Reverse Range | 5,8 |  | $\mathbf{4}$ |
| Reverse Mode | 7 | $\mathbf{2}$ |  |
|  | Total Marks |  | $\mathbf{1 3}$ |

## Reverse Averages: Range, Mode, Median

| 6 | 8 | 9 | 6 | 7 | 9 | 5 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 5 | 6 | 6 | 7 | 8 | 9 | 9 |

1. What is the mode?

Mode $=6$ and 9
2. What is the range?

$$
\text { Range }=9-5=4
$$

3. What is the median?
$A, B$ and $C$ are sets of three single digit cards.
Set A has the same total as Set B.
Set $B$ has the same median as Set $A$.
4. Complete the cards in set B


Set C has the same total as Set A.
Set $C$ has double the range as Set B.
5. Complete the cards in set C

6. There are four single digit cards. The sum of the cards is 25 and the median is 7 .
Complete the cards with a possible solution.
8

$25-8=17$
7. A magician is planning a magic trick with cards numbered from 1-10, however he wants to make the pack biased. His pack of cards to have a mode of 6 but have a total of 29 . Complete the cards with a possible solution.


$$
9+6+6=21 \quad 29-21=8
$$

8. The magician now wants five cards to have a total of 35 and a range of 8 .
complete the cards with a possible solution.

| 8 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

