## To know how to compare and order integers

**1** Compare these numbers.

   **a** 53,689,999 and 53,089,999      **b** 4,500,000 and 45,000,000

   **c** 3,221,000 and 221,000      **d** 1,730,298 and 1,735,198

   **e** 4,550,000 – 2,000,000 and 4,550,000 + 2,000,000

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**2** Put the numbers in descending order.

   **a** | 2,113,040 | 2,113,400 | 2,311,400 |

   **b** | 4,201,004 | 2,401,004 | 4,200,004 |

Put the numbers in ascending order.

   **c** | 5,000,230 | 5,320,000 | 532,000 |

   **d** | 9,999,889 | 9,990,887 | 9,999,989 |

The numbers are in ascending order, which number is missing. Explain your answer.

   **c** | 4,444,080 | | 4,444,80 |

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3   Here are the costs of some space travel equipment.
rocket: £9,999,000
one space suit: £1,879,000
fuel: half the cost of the rocket
rigging: a quarter of the cost of the rocket
two space suits: £3,500,000

a   What is the most expensive item?

b   What is the least expensive item?

c   Put the items in ascending order.

d   Which item is in the middle of the ascending order list?

# To know how to compare and order integers

| Question Number | Question | Answer |
|---|---|---|
| 1 | Compare these numbers. | a) ><br>b) <<br>c) ><br>d) <<br>e) < |
| 2 | a and b) Put the numbers in descending order.<br>c and d) Put the numbers in ascending order.<br>e) The numbers are in ascending order, which number is missing. Explain your answer. | a) 2,311,400 then 2,113,400 then 2,113,040<br>b) 4,201,004 then 4,200,004 then 2,401,004<br>c) 532,000 then 5,000,230 then 5,320,000<br>d) 9,990,887 then 9,999,889 then 9,999,989<br>e) Any number between 4,444,081 and 4,444,799. Explanations should demonstrate an understanding of how to order numbers. For example, The missing number could be 4,444,500 as this is smaller than 4,444,800 and larger than 4,444,080. |
| 3 | a) What is the most expensive item?<br>b) What is the least expensive item?<br>c) Put the items in ascending order.<br>d) Which item is in the middle of the ascending order list? | a) Rocket (£9,999,000)<br>b) One Space Suit (£1,879,000)<br>c) One Space Suit (£1,879,000), rigging (£2,499,750), two space suits (£3,500,000), fuel (£4,999,500), rocket (£9,999,000)<br>d) Two space suits |