EduSahara™ Learning Center Assignment

Grade   : Class VII, ICSE
Chapter   : Venn Diagrams
Name   : Word Problems on Sets
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1. In a class of 22 students, each one likes either 'volleyball' or 'long jump' or both. If 15 students like 'volleyball' and 13 students like 'long jump', how many like both the games?

    (i) 9 (ii) 6 (iii) 7 (iv) 4 (v) 5

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2. In a class of 26 students, each one likes either 'tennis' or 'high jump' or both. If 24 students like 'tennis' and 24 students like 'high jump', how many like 'tennis' only?

    (i) (-1) (ii) 3 (iii) 2 (iv) 1 (v) 5

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3. In a class of 18 students, each one likes either 'Dancing' or 'Painting' or both. If 14 students like 'Dancing' and 17 students like 'Painting', how many like both the activities?

    (i) 16 (ii) 14 (iii) 12 (iv) 13 (v) 10

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4. In a class of 19 students, each one likes either 'Dancing' or 'Reading books' or both. If 10 students like 'Dancing' and 18 students like 'Reading books', how many like 'Dancing' only?

    (i) 3 (ii) 0 (iii) (-2) (iv) 2 (v) 1

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5. In a class of 32 students, if 7 students like 'high jump', 27 students like 'hockey' and 6 students like both the games, how many like 'hockey' only ?

    (i) 18 (ii) 22 (iii) 21 (iv) 20 (v) 24

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6. In a class of 35 students, if 23 students like 'Dancing', 32 students like 'Listening music' and 22 students like both the activities, how many like 'Dancing' only ?

    (i) (-2) (ii) 2 (iii) 3 (iv) 1 (v) 0

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7. In a class of 34 students, if 15 students like 'Reading books', 23 students like 'Painting' and 10 students like both the activities, how many do not like any of the activities ?

    (i) 3 (ii) 6 (iii) 5 (iv) 8 (v) 7

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8. In a class of 27 students, if 25 students like 'Painting', 13 students like 'Singing' and 13 students like both the activities, how many like 'Singing' only ?

    (i) 0 (ii) 3 (iii) (-3) (iv) (-1) (v) 1

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9. In a class of 30 students, if 8 students study 'Spanish', 14 students study 'Hindi' and 1

students study both the subjects, how many do not study any of the subjects ?

(i) 7 (ii) 10 (iii) 9 (iv) 8 (v) 12

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10. In a class of 28 students, if 15 students study 'Spanish', 27 students study 'German' and 14 students study both the subjects, how many study 'Spanish' only ?

(i) 2 (ii) 0 (iii) 1 (iv) 4 (v) (-2)

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11. In a class of 26 students, if 6 students study 'Sanskrit', 15 students study 'Science' and 2 students study both the subjects, how many study 'Science' only ?

(i) 16 (ii) 13 (iii) 14 (iv) 11 (v) 12

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12. In a class of 29 students, if 8 students prefer 'Bicycle', 20 students prefer 'Scooter' and 6 students prefer both the modes of transport, how many do not prefer any of the modes of transport ?

(i) 9 (ii) 8 (iii) 7 (iv) 6 (v) 5

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13. In a class of 30 students, if 18 students prefer 'RTC Bus', 17 students prefer 'Auto' and 11 students prefer both the modes of transport, how many prefer 'RTC Bus' only ?

(i) 7 (ii) 8 (iii) 6 (iv) 9 (v) 4

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14. In a class of 25 students, if 12 students prefer 'Car', 7 students prefer 'Bicycle' and 5 students prefer both the modes of transport, how many prefer 'Bicycle' only ?

(i) 2 (ii) 1 (iii) 0 (iv) 3 (v) 4

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15. In a class of 27 students, if 12 students read 'Hindustan Times', 18 students read 'The Hindu' and 7 students read both the news papers, how many do not read any of the news papers ?

(i) 3 (ii) 1 (iii) 7 (iv) 5 (v) 4

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16. In a class of 31 students, if 17 students read 'Deccan Chronicle', 6 students read 'Hindustan Times' and 3 students read both the news papers, how many read 'Deccan Chronicle' only ?

(i) 14 (ii) 12 (iii) 15 (iv) 13 (v) 17

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17. In a class of 35 students, if 17 students read 'Times of India', 30 students read 'Deccan Chronicle' and 15 students read both the news papers, how many read 'Deccan Chronicle' only ?

(i) 15 (ii) 12 (iii) 16 (iv) 18 (v) 14

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18. In a class of 31 students, each one likes either 'Playing' or 'Watching TV' or both. If 27 students like 'Playing' and 23 students like 'Watching TV', how many like both the activities?

(i) 19 (ii) 21 (iii) 18 (iv) 20 (v) 16

19. In a class of 18 students, each one likes either 'Watching TV' or 'Community work' or both. If 6 students like 'Watching TV' and 15 students like 'Community work', how many like 'Watching TV' only?

(i) 5 (ii) 0 (iii) 2 (iv) 3 (v) 4

20. In a class of 23 students, each one likes either 'Helping parents' or 'Playing' or both. If 6 students like 'Helping parents' and 23 students like 'Playing', how many like 'Playing' only?

(i) 16 (ii) 20 (iii) 17 (iv) 15 (v) 18

Assignment Key

1) (ii)
2) (iii)
3) (iv)
4) (v)
5) (iii)
6) (iv)
7) (ii)
8) (i)
9) (iii)
10) (iii)
11) (ii)
12) (iii)
13) (i)
14) (i)
15) (v)
16) (i)
17) (i)
18) (i)
19) (iv)
20) (iii)