

## Part-Part-Whole Basics (Worksheet 1)

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Fill in the missing parts to complete the part-part-whole diagram.

1.  $12 = 7 + \underline{\quad}$

2.  $15 = \underline{\quad} + 9$

3.  $20 = 13 + \underline{\quad}$

4.  $18 = \underline{\quad} + 10$

5.  $25 = 17 + \underline{\quad}$

6.  $30 = 12 + \underline{\quad}$

7.  $14 = 8 + \underline{\quad}$

8.  $16 = \underline{\quad} + 7$

9.  $22 = 11 + \underline{\quad}$

10.  $19 = \underline{\quad} + 8$

11.  $24 = 9 + \underline{\quad}$

12.  $27 = 15 + \underline{\quad}$

13.  $21 = \underline{\quad} + 12$

14.  $13 = \underline{\quad} + 5$

15.  $17 = 9 + \underline{\quad}$

16.  $28 = 14 + \underline{\quad}$

17.  $23 = \underline{\quad} + 11$

18.  $26 = 18 + \underline{\quad}$

19.  $29 = \underline{\quad} + 16$

20.  $31 = 20 + \underline{\quad}$

21.  $34 = \underline{\quad} + 19$

22.  $40 = 25 + \underline{\quad}$

23.  $33 = \underline{\quad} + 17$

24.  $45 = 30 + \underline{\quad}$

25.  $38 = \underline{\quad} + 21$

26.  $50 = 35 + \underline{\quad}$

27.  $44 = \underline{\quad} + 26$

28.  $60 = 42 + \underline{\quad}$

29.  $37 = \underline{\quad} + 18$

30.  $55 = 28 + \underline{\quad}$

## Missing Numbers Using Inverse Operations (Worksheet 2)

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Solve the missing numbers using the inverse relationship.

1.  $15 - \underline{\quad} = 8$

2.  $\underline{\quad} - 7 = 9$

3.  $12 - \underline{\quad} = 5$

4.  $20 - \underline{\quad} = 13$

5.  $\underline{\quad} - 8 = 12$

6.  $18 - \underline{\quad} = 9$

7.  $\underline{\quad} - 6 = 11$

8.  $14 - \underline{\quad} = 6$

9.  $25 - \underline{\quad} = 15$

10.  $\underline{\quad} - 9 = 10$

11.  $22 - \underline{\quad} = 14$

12.  $\underline{\quad} - 5 = 17$

13.  $30 - \underline{\quad} = 20$

14.  $\underline{\quad} - 12 = 11$

15.  $16 - \underline{\quad} = 7$

16.  $40 - \underline{\quad} = 25$

17.  $\underline{\quad} - 15 = 20$

18.  $35 - \underline{\quad} = 18$

19.  $\underline{\quad} - 14 = 16$

20.  $50 - \underline{\quad} = 32$

21.  $\underline{\quad} - 18 = 22$

22.  $27 - \underline{\quad} = 19$

23.  $\underline{\quad} - 21 = 14$

24.  $60 - \underline{\quad} = 45$

25.  $\underline{\quad} - 30 = 25$

26.  $48 - \underline{\quad} = 29$

27.  $\underline{\quad} - 16 = 24$

28.  $55 - \underline{\quad} = 37$

29.  $\underline{\quad} - 28 = 12$

30.  $70 - \underline{\quad} = 52$

## Combination Questions (Worksheet 3)

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Fill in the missing part to complete the addition sentence.

1.  $7 + \underline{\quad} = 12$
2.  $\underline{\quad} + 9 = 15$
3.  $13 + \underline{\quad} = 20$
4.  $\underline{\quad} + 10 = 18$
5.  $17 + \underline{\quad} = 25$
6.  $\underline{\quad} + 12 = 24$
7.  $8 + \underline{\quad} = 14$
8.  $\underline{\quad} + 7 = 16$
9.  $11 + \underline{\quad} = 22$
10.  $\underline{\quad} + 8 = 19$
11.  $9 + \underline{\quad} = 24$
12.  $15 + \underline{\quad} = 27$
13.  $\underline{\quad} + 12 = 21$
14.  $5 + \underline{\quad} = 13$
15.  $9 + \underline{\quad} = 17$
16.  $14 + \underline{\quad} = 30$
17.  $\underline{\quad} + 18 = 35$
18.  $22 + \underline{\quad} = 40$
19.  $\underline{\quad} + 25 = 50$
20.  $16 + \underline{\quad} = 45$
21.  $\underline{\quad} + 30 = 60$
22.  $27 + \underline{\quad} = 55$
23.  $\underline{\quad} + 14 = 33$
24.  $19 + \underline{\quad} = 44$
25.  $\underline{\quad} + 21 = 46$
26.  $35 + \underline{\quad} = 70$
27.  $\underline{\quad} + 28 = 52$
28.  $41 + \underline{\quad} = 80$
29.  $\underline{\quad} + 16 = 39$
30.  $24 + \underline{\quad} = 63$

## Word Problems (Worksheet 4)

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Read carefully and solve using part-part-whole or inverse operations..

1. Mia has 7 apples. She buys some more and now has 12. How many did she buy?
2. Tom has 15 pencils. He gives some to Anna and has 8 left. How many did he give?
3. A basket has 20 oranges. 13 are eaten. How many are left?
4. Sarah read 10 pages yesterday. She read some more today and now has read 18 pages. How many did she read today?
5. There are 25 birds. 17 fly away. How many remain?
6. A box contains 30 chocolates. 12 are eaten. How many are left?
7. Lucy has 14 stickers. She buys some more and now has 21. How many did she buy?
8. Jack had 16 marbles. He gave 7 to Sam. How many are left?
9. There are 22 chairs. 11 are broken. How many are usable?
10. Emma had 19 balloons. 8 popped. How many are left?
11. A farmer has 24 sheep. 9 are sold. How many remain?
12. Ben had 27 marbles. He gave some to Mia and now has 15. How many did he give?
13. 21 pencils are in a box. 12 are used. How many are left?
14. 13 books are on a shelf. 5 are taken. How many remain?
15. There are 17 sweets. 9 are eaten. How many are left?
16. A jar has 26 cookies. 14 are taken out. How many remain?
17. Nina had 18 crayons. She bought some more and now has 25. How many did she buy?
18. There are 32 students in a class. 9 are absent. How many are present?
19. A shop had 40 apples. 18 were sold. How many are left?
20. Leo had 23 toy cars. He gave some away and now has 12. How many did he give?
21. There are 29 flowers in a garden. 16 are picked. How many remain?
22. Ava read 15 pages in the morning. She read more later and now has read 28 pages. How many did she read later?
23. A basket had 34 eggs. 19 were used. How many are left?
24. Ryan had 20 stickers. He lost 7. How many does he have now?
25. There were 45 candies. 27 were given away. How many remain?

## Mixed Practice (Worksheet 5)

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Solve all the problems using part-part-whole or inverse operations..

1.  $12 = \underline{\quad} + 5$

2.  $\underline{\quad} - 6 = 9$

3.  $15 = 7 + \underline{\quad}$

4.  $20 - \underline{\quad} = 8$

5.  $\underline{\quad} + 10 = 18$

6.  $25 - \underline{\quad} = 17$

7.  $14 = \underline{\quad} + 8$

8.  $\underline{\quad} - 7 = 9$

9.  $22 = 11 + \underline{\quad}$

10.  $19 - \underline{\quad} = 8$

11.  $\underline{\quad} + 9 = 24$

12.  $27 - \underline{\quad} = 15$

13.  $21 = 12 + \underline{\quad}$

14.  $\underline{\quad} - 5 = 12$

15.  $17 + \underline{\quad} = 23$

16.  $30 = \underline{\quad} + 14$

17.  $\underline{\quad} - 8 = 16$

18.  $26 = 19 + \underline{\quad}$

19.  $35 - \underline{\quad} = 20$

20.  $\underline{\quad} + 7 = 25$

21.  $40 - \underline{\quad} = 18$

22.  $28 = \underline{\quad} + 13$

23.  $\underline{\quad} - 9 = 21$

24.  $33 = 17 + \underline{\quad}$

25.  $50 - \underline{\quad} = 32$

26.  $\underline{\quad} + 15 = 45$

27.  $60 - \underline{\quad} = 27$

28.  $24 = \underline{\quad} + 16$

29.  $\underline{\quad} - 11 = 29$

30.  $18 + \underline{\quad} = 31$

## Challenge Questions (Worksheet 6)

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Solve the problems using mental math and show your working..

1.  $12 + \underline{\quad} = 20$
2.  $\underline{\quad} + 7 = 15$
3.  $18 - \underline{\quad} = 9$
4.  $\underline{\quad} - 6 = 12$
5.  $15 + \underline{\quad} = 27$
6.  $24 - \underline{\quad} = 13$
7.  $\underline{\quad} + 8 = 21$
8.  $16 - \underline{\quad} = 7$
9.  $22 + \underline{\quad} = 30$
10.  $\underline{\quad} + 5 = 19$
11.  $20 - \underline{\quad} = 11$
12.  $\underline{\quad} - 9 = 16$
13.  $13 + \underline{\quad} = 25$
14.  $17 - \underline{\quad} = 8$
15.  $\underline{\quad} + 12 = 28$
16.  $19 + \underline{\quad} = 34$
17.  $\underline{\quad} + 9 = 26$
18.  $30 - \underline{\quad} = 14$
19.  $\underline{\quad} - 8 = 17$
20.  $21 + \underline{\quad} = 40$
21.  $45 - \underline{\quad} = 29$
22.  $\underline{\quad} + 6 = 23$
23.  $28 - \underline{\quad} = 19$
24.  $16 + \underline{\quad} = 33$
25.  $\underline{\quad} - 7 = 20$
26.  $50 - \underline{\quad} = 32$
27.  $\underline{\quad} + 14 = 39$
28.  $37 - \underline{\quad} = 18$
29.  $18 + \underline{\quad} = 41$
30.  $\underline{\quad} - 12 = 24$

## Answer Sheet

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**Worksheet 1: 1-5, 2-6, 3-7, 4-8, 5-8, 6-18, 7-6, 8-9, 9-11, 10-11, 11-15, 12-12, 13-9, 14-8, 15-8**

**Worksheet 2: 1-7, 2-16, 3-7, 4-7, 5-20, 6-9, 7-5, 8-8, 9-10, 10-19, 11-8, 12-12, 13-10, 14-23, 15-9**

**Worksheet 3: 1-5, 2-6, 3-7, 4-8, 5-8, 6-12, 7-6, 8-9, 9-11, 10-11, 11-15, 12-12, 13-9, 14-8, 15-8**

**Worksheet 4: 1-5, 2-7, 3-7, 4-8, 5-8, 6-18, 7-7, 8-9, 9-11, 10-11, 11-15, 12-12, 13-9, 14-8, 15-8**

**Worksheet 5: 1-7, 2-15, 3-8, 4-12, 5-8, 6-8, 7-6, 8-16, 9-11, 10-11, 11-15, 12-12, 13-9, 14-17, 15-6**

**Worksheet 6: 1-8, 2-8, 3-9, 4-6, 5-12, 6-11, 7-13, 8-9, 9-8, 10-14, 11-9, 12-7, 13-12, 14-9, 15-16**