Percent Problems: Numeric Drills

The Basic Percent Problem: _____ is _____ % of _____

1. What is 40% of 85?   Solution video here
2. 60 is what percent of 80?
3. 50 is 62.5% of what number?
4. What is 15% of 30?
5. 12 is what percent of 6?
6. 100 is 40% of what number?
7. What is 3% of 2,000?
8. 400 is what percent of 680?
9. 2.7 is 75% of what number?

Chain percents of

10. What is 30% of 80% of 5,000?   Solution video here
11. What is 125% of 60% of 40?
12. What is 90% of 90% of 90% of 1,000?

Percents More or Less

13. What is 20% more than 36?   Solution video here
14. What is 5% more than 90?
15. What is 10% less than 150?
16. What is 40% less than 320?
17. What is 100% more than 71?
18. What is 80% less than 1,000?
19. 80 is 50% more than what?
20. 150 is 20% more than what number?
21. 20 is 30% less than what?
22. 3,500 is 65% less than what value?

Chain percents more or less

23. What is 10% more than 20% more than 500?   Solution video here
24. What is 15% more than 10% less than 100?
25. What is 20% less than 30% more than 725?
26. What is 16% less than 15% less than 360?

Unknown percent more / less than

27. 60 is what % more than 50?   Solution video here
28. 1.2 is what percent more than 0.8?
29. 200 is what % less than 300?
30. 20,000 is what percent less than 32,000?
31. 96 is what % more than 84?
32. 450 is what % less than 500?

5/03/18

Percent reciprocal relationships

33. If A is 120% of B, then B is _____ % of A   <u>Solution video here</u>
34. If C is 60% of D, then D is _____ % of C
35. If E is 10% more than F, then
    a. E is _____ % of F and therefore
    b. F is _____ % of E and
    c. F is _____ % less than E.
36. If J is 250% more than K, then K is _____ % less than J.
37. G is 80% less than H. Therefore, H is _____ % more than G.

Fractional percents

38. What is $\frac{1}{2}$% of 200?   (Same methods but with fraction / decimals)
39. What is 0.01% of 3,000?
40. Find $5\frac{3}{4}$% of $840,000

Answer Key

1.	34		21	28.571…
2.	75		22	10,000
3.	80		23	660
4	4.5		24	103.5
5	200		25	754
6	250		26	257.04
7	60		27	20
8	58.823…		28	50
9	3.6		29	33.333…
10	1,200		30	37.5
11	30		31	14.287…
12	729		32	10
13	43.2		33	83.333 …
14	94.5		34	166.666…
15	135		35	a. 110 b. 90.909… c. 9.090…
16	192		36	71.428…
17	142		37	400
18	200		38	1
19	53.333…		39	0.3
20	125		40	$48,300