

Name: _____ Date: _____

Warm up with these math facts. Calculate.

- | | | | | |
|--|---|--|--|--|
| 1. $\begin{array}{r} 1 \\ - 1 \\ \hline \end{array}$ | 2. $\begin{array}{r} 3 \\ \sqrt{9} \end{array}$ | 3. $\begin{array}{r} 2 \\ \times 10 \\ \hline \end{array}$ | 4. $\begin{array}{r} 1 \\ + 6 \\ \hline \end{array}$ | 5. $\begin{array}{r} 1 \\ \sqrt{8} \end{array}$ |
| 6. $\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$ | 7. $\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$ | 8. $\begin{array}{r} 6 \\ \sqrt{42} \end{array}$ | 9. $\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$ | 10. $\begin{array}{r} 4 \\ \sqrt{36} \end{array}$ |
| 11. $\begin{array}{r} 1 \\ + 2 \\ \hline \end{array}$ | 12. $\begin{array}{r} 9 \\ \sqrt{9} \end{array}$ | 13. $\begin{array}{r} 10 \\ \sqrt{50} \end{array}$ | 14. $\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$ | 15. $\begin{array}{r} 10 \\ + 6 \\ \hline \end{array}$ |
| 16. $\begin{array}{r} 5 \\ - 4 \\ \hline \end{array}$ | 17. $\begin{array}{r} 3 \\ - 1 \\ \hline \end{array}$ | 18. $\begin{array}{r} 6 \\ \sqrt{54} \end{array}$ | 19. $\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$ | 20. $\begin{array}{r} 4 \\ \sqrt{40} \end{array}$ |
| 21. $\begin{array}{r} 3 \\ - 3 \\ \hline \end{array}$ | 22. $\begin{array}{r} 5 \\ \times 10 \\ \hline \end{array}$ | 23. $\begin{array}{r} 4 \\ - 2 \\ \hline \end{array}$ | 24. $\begin{array}{r} 4 \\ - 1 \\ \hline \end{array}$ | 25. $\begin{array}{r} 4 \\ \sqrt{8} \end{array}$ |
| 26. $\begin{array}{r} 8 \\ + 6 \\ \hline \end{array}$ | 27. $\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$ | 28. $\begin{array}{r} 9 \\ \sqrt{45} \end{array}$ | 29. $\begin{array}{r} 1 \\ \sqrt{5} \end{array}$ | 30. $\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$ |
| 31. $\begin{array}{r} 6 \\ \sqrt{24} \end{array}$ | 32. $\begin{array}{r} 10 \\ \times 1 \\ \hline \end{array}$ | 33. $\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$ | 34. $\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$ | 35. $\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$ |
| 36. $\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$ | 37. $\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$ | 38. $\begin{array}{r} 1 \\ \sqrt{9} \end{array}$ | 39. $\begin{array}{r} 9 \\ \sqrt{18} \end{array}$ | 40. $\begin{array}{r} 8 \\ - 1 \\ \hline \end{array}$ |

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Convert the given measures to new units.

41. 49 mm = _____ cm 42. 12 mm = _____ cm 43. 77 mm = _____ cm
 44. 75 mm = _____ cm 45. 52 mm = _____ cm 46. 65 mm = _____ cm
 47. 46 mm = _____ cm 48. 21 mm = _____ cm 49. 63 mm = _____ cm
 50. 22 mm = _____ cm

Find the pattern.

51. 76, 73, 70, 67, 64, 61, 58, _____ 52. 11, 14, 17, 20, 23, 26, 29, _____
 53. 7, 13, 19, 25, 31, 37, 43, _____ 54. 12, 16, 24, 30, 36, 42, 48, _____
 55. 94, 87, 80, 73, 66, 59, 52, _____ 56. 26, 31, 36, 41, 46, 51, 56, _____
 57. 17, 23, 29, 35, 41, 47, 53, _____ 58. 27, 34, 41, 48, 55, 62, 69, _____
 59. 48, 44, 40, 36, 32, 28, 24, _____ 60. 66, 63, 60, 57, 54, 51, 48, _____

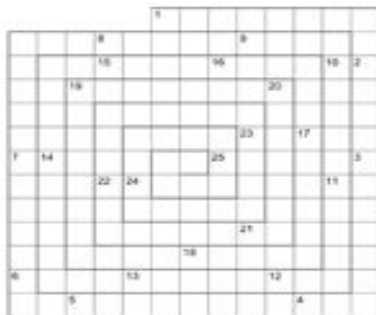
Match the answer with the question.

- | | | |
|----------------------|---|--------|
| a. $8 + 15 =$ _____ | • | D = 22 |
| b. $20 + 17 =$ _____ | • | G = 21 |
| c. $4 + 18 =$ _____ | • | C = 11 |
| d. $2 + 9 =$ _____ | • | B = 22 |
| e. $19 + 16 =$ _____ | • | J = 18 |
| f. $9 + 1 =$ _____ | • | F = 35 |
| g. $7 + 16 =$ _____ | • | A = 23 |
| h. $15 + 6 =$ _____ | • | H = 23 |
| i. $11 + 7 =$ _____ | • | I = 10 |
| j. $9 + 13 =$ _____ | • | E = 37 |

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Winter Word Spiral

Numbered clues appear below the spiral grid. Determine the word that matches the clue, and write that word in the spiral puzzle. The word does not overlap with the next word (marked by the next number) and it must be written in the correct direction (from a lower numbered space to a higher numbered space).



- | | | | |
|------------|------------|-------------|-----------|
| UNIQUE | ICICLE | WATER | FREEZING |
| POLAR BEAR | SNOW | JANUARY | WHITE |
| FROST | SNOW GLOBE | WINTER | FORECAST |
| IKLOD | GLOVES | HATS | SCIENCE |
| CRYSTALS | MITTENS | SNOWBALL | SNOWFLAKE |
| ICE | BLIZZARD | TEMPERATURE | COLD |
| ARCTIC | | | |

Winter Alphabet Soup

Each line of the puzzle has one word hidden in a list of random letters. The blank space is a missing letter that belongs to that word. Decide what word is hidden in the letters and write in the space the missing letter. A word bank has been provided. Each word in the word bank appears somewhere in the puzzle.

1.	Z	D	L	Y	U	N	I	Q	U	M	E	T	P	E	Z	J	J	K
2.	Z	X	Q	O	B	M	I	H	W	I	T	E	J	O	G	F	B	D
3.	Q	P	D	D	S	N	O	W	F	A	K	E	K	A	Q	B	W	B
4.	K	T	F	K	Q	B	R	U	D	O	L	D	A	E	H	C	W	L
5.	X	O	S	N	O	W	G	L	O	E	Y	K	G	R	G	N	M	U
6.	C	Z	Q	W	Y	I	V	N	R	A	N	U	A	R	Y	B	M	O
7.	F	G	I	G	L	H	W	P	M	G	L	O	O	M	L	F	V	G
8.	R	G	X	T	Q	V	I	C	I	L	E	U	M	G	Z	B	Q	L
9.	C	K	W	E	W	I	N	T	E	R	B	W	C	X	T	D	X	V
10.	N	O	R	K	M	X	T	S	C	E	N	C	E	X	F	H	C	N
11.	A	G	T	T	F	L	T	I	C	U	R	G	R	W	Q	U	M	T
12.	E	D	S	J	I	F	V	T	X	A	T	E	R	V	G	M	H	W
13.	O	P	H	J	N	A	R	C	T	C	P	L	Z	P	V	X	I	X
14.	D	X	H	P	O	L	A	R	B	A	R	B	I	F	I	L	J	Q
15.	D	R	H	M	M	J	A	G	D	O	R	E	C	A	S	T	L	Y
16.	Y	M	S	M	I	T	T	E	N	C	T	D	P	X	J	L	Z	U
17.	F	Q	H	O	X	F	N	G	L	V	E	S	U	H	H	K	I	R
18.	A	P	A	C	C	R	Y	S	T	L	S	K	G	Q	S	R	B	W
19.	L	X	H	H	C	Z	Z	F	R	E	Z	I	N	G	G	Z	P	O
20.	Y	P	G	H	B	M	H	A	T	P	R	Z	F	P	X	S	W	Z

UNIQUE WHITE ICE HATS