

(1.7) Order of Operations

SHOW all work

Name Key

Solve the following problems to figure out what happened to the teacher.

Did you hear about the teacher who was arrested trying to board an airplane with a compass, a protractor and a calculator?

1. $3 + (8 - 2) \times 4^2 = 99$

2. $10 + 4 \div 2 = 12$

3. $(7 + 3) \times 6 - 5 = 55$

4. $18 + (4 - 2)^2 = 22$

5. $6 \times (2 \div 1) - 3 = 9$

6. $(3 + 1) \times 8 \times 4 = 128$

7. $(3 \times 6) - 5 = 13$

8. $24 \times (8 - 7) + 2 = 26$

9. $(3 + 3 \times 6) \div 1 = 21$

10. $8 - 4 + 6 \div 2 = 7$

11. $5^2 + (8 - 3) \times 2 = 35$

12. $(9 \times 9 \div 3) = 27$

13. $(3^2 + 4) - 6 + 4 = 11$

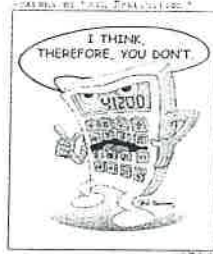
14. $3^3 + 4^2 - 10 = 33$

15. $(5 \times 3) \times 1 + 5 = 20$

16. $9(2^2 + 4 \div 2) = 54$

17. $(10 + 5)(2 + 1) = 45$

18. $2 \times (2^3 - 4) = 8$



Use the key to figure out what happened to the teacher.

A	B	C	D	E	F	G	H	I	J	K	L	M
22	327	9	45	12	54	27	55	33	89.3	245	92.94	20

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
13	35	11	82	7	26	128	21	78.6	99	908	8	100

h e w a r c h a r a r e d
 3 2 1 4 8 5 3 4 10 12 2 17

w i t h c a r r y i n g
 1 14 6 3 5 4 10 10 18 14 7 12

w e a p o n s o f m a t h
 1 2 4 13 11 7 8 11 16 15 4 6 3

i n s t r u c t i o n !
 14 7 8 6 10 9 5 6 14 11 7

1.7) Did you Hear About the Teacher...

$$\begin{aligned} 1) \quad & 3 + (8 - 2) \times 4^2 \\ & 3 + (6) \times 16 \\ & 3 + 96 \\ & \boxed{99} \end{aligned}$$

$$\begin{aligned} 2) \quad & 10 + 4 \div 2 \\ & 10 + 2 \\ & \boxed{12} \end{aligned}$$

$$\begin{aligned} 3) \quad & (7 + 3) \times 6 - 5 \\ & (10) \times 6 - 5 \\ & 60 - 5 \\ & \boxed{55} \end{aligned}$$

$$\begin{aligned} 4) \quad & 18 + (4 - 2)^2 \\ & 18 + (2)^2 \\ & 18 + 4 \\ & \boxed{22} \end{aligned}$$

$$\begin{aligned} 5) \quad & 6 \times (2 \div 1) - 3 \\ & 6 \times (2) - 3 \\ & 12 - 3 \\ & \boxed{9} \end{aligned}$$

$$\begin{aligned} 6) \quad & (3 + 1) \times 8 \times 4 \\ & (4) \times 8 \times 4 \\ & 32 \times 4 \\ & \boxed{128} \end{aligned}$$

$$\begin{aligned} 7) \quad & (3 \times 6) - 5 \\ & (18) - 5 \\ & \boxed{13} \end{aligned}$$

$$\begin{aligned} 8) \quad & 24 \times (8 - 7) + 2 \\ & 24 \times (1) + 2 \\ & 24 + 2 \\ & \boxed{26} \end{aligned}$$

$$\begin{aligned} 9) \quad & (3 + 3 \times 6) \div 1 \\ & (3 + 18) \div 1 \\ & (21) \div 1 \\ & \boxed{21} \end{aligned}$$

$$\begin{aligned} 10) \quad & 8 - 4 + 6 \div 2 \\ & 8 - 4 + 3 \\ & 4 + 3 \\ & \boxed{7} \end{aligned}$$

$$\begin{aligned} 11) \quad & 5^2 + (8-3) \times 2 \\ & 25 + (5) \times 2 \\ & 25 + 10 \\ & \boxed{35} \end{aligned}$$

$$\begin{aligned} 12) \quad & (9 \times 9 \div 3) \\ & (81 \div 3) \\ & \boxed{27} \end{aligned}$$

$$\begin{aligned} 13) \quad & (3^2 + 4) - 6 + 4 \\ & (9 + 4) - 6 + 4 \\ & 13 - 6 + 4 \\ & 7 + 4 \\ & \boxed{11} \end{aligned}$$

$$\begin{aligned} 14) \quad & 3^3 + 4^2 - 10 \\ & 27 + 16 - 10 \\ & 43 - 10 \\ & \boxed{33} \end{aligned}$$

$$\begin{aligned} 15) \quad & (5 \times 3) \times 1 + 5 \\ & (15) \times 1 + 5 \\ & 15 + 5 \\ & \boxed{20} \end{aligned}$$

$$\begin{aligned} 16) \quad & 9(2^2 + 4 \div 2) \\ & 9(4 + 4 \div 2) \\ & 9(4 + 2) \\ & 9(6) \\ & \boxed{54} \end{aligned}$$

$$\begin{aligned} 17) \quad & (10+5)(2+1) \\ & (15)(3) \\ & \boxed{45} \end{aligned}$$

$$\begin{aligned} 18) \quad & 2 \times (2^3 + 4) \\ & 2 \times (8 + 4) \\ & 2 \times (12) \\ & \boxed{24} \end{aligned}$$