# EXTRA PRACTICE - Exercises 

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## Unit I - The Structure of Mathematics Part C - Further Investigation of Operation Symbols Lesson 2 - Properties of Operations

Identify completely the property of operations illustrated by each of the following.

1. $8 \cdot(7 \cdot 6)=(8 \cdot 7) \cdot 6$
2. $5(40+2)=5 \cdot 40+5 \cdot 2$
3. $4 \cdot 2 \cdot 8 \cdot 5=(4 \cdot 2) \cdot(8 \cdot 5)$
4. $6(3 x)=(6 \cdot 3) x$
5. $4(2.3+4.9)=4(2.3)+4(4.9)$
6. $23+(17+34)=(23+17)+34$
7. $1.68+0.6+0.32=1.68+0.32+0.6$
8. $5 \cdot(12 \cdot 4)=5 \cdot(4 \cdot 12)$
9. $8 \cdot(7 \cdot 6)=(7 \cdot 6) \cdot 8$
10. $6 \cdot 380=6(300+80)=6 \cdot 300+6 \cdot 80$

Use the appropriate property or properties in each of the following to perform the computation mentally. Be sure to identify each property you use.
11. $17+7+16+3+4+3+8$
12. $2.8+4.7+7.2$
13. $\frac{1}{3} \cdot \frac{2}{7} \cdot 18 \cdot 14$
14. $2+21+8+7 \frac{1}{2}+9+2 \frac{1}{2}$
15. $2 \cdot(137 \cdot 5)$
16. $25 \cdot 13 \cdot 4 \cdot 2$
17. $-8.5+(-1)[(-3)+(-2.5)]$
18. $\frac{9}{4} \cdot \frac{8}{5} \cdot \frac{4}{9} \cdot 15$
19. $99 \frac{4}{9}+6 \frac{2}{5}+3 \frac{1}{5}+\frac{5}{9}$
20. $430+18+70+22$

# Unit I - The Structure of Mathematics Part C - Further Investigation of Operation Symbols Lesson 2 - Properties of Operations 

Identify completely the property of operations illustrated by each of the following.

1. Associative Property of Multiplication
2. Distributive Property of Multiplication to Addition
3. Associative Property of Multiplication
4. Associative Property of Multiplication
5. Distributive Property of Multiplication to Addition
6. Associative Property of Addition
7. Commutative Property of Addition
8. Commutative Property of Multiplication
9. Commutative Property of Multiplication
10. Distributive Property of Multiplication to Addition

Use the appropriate property or properties in each of the following to perform the computation mentally. Be sure to identify each property you use.
11. 58, Commutative Property of Addition
12. 14.7, Commutative Property of Addition
13. 24, Commutative Propterty of Multiplication
14. 50, Commutative Property of Addition
15. 1370, Commutative Property of Multiplication and Associative Property of Multiplication
16. 2600, Commutative Property of Multiplication
17. -3, Distributive Property of Multiplication to Addition and Commutative Property of Addition
18. 24, Commutative Property of Multiplication and Multiplication Property of 1
19. 109 3/5, Commutative Property of Addition
20. 540, Commutative Property of Addition

