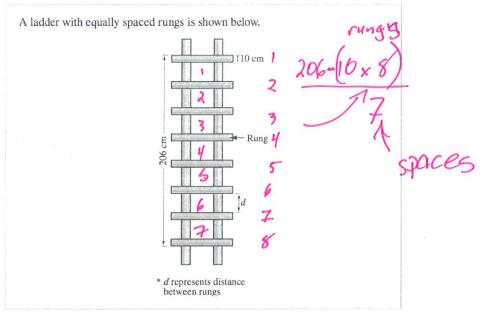
4. Which of the following expressions is equivalent to $(40 + 10)^{-9}$



- $40 + 10 \div 5 \times 6 4$
- $(40 + 10) \div 5 \times (6 4)$
- $40 + 10 \div (5 \times (6 4))$
- $(40 + 10) \div (5 \times (6 4))$

Use the following diagram to answer question 15.



15. Which of the following equations can be used to calculate the distance, d, between each ladder rung?

A.
$$d = 206 - 8(10) \div 7$$

B.
$$d = 206 - 8(10) \times 7$$

C.
$$d = \frac{7}{206 - 8(10)}$$

$$d = \frac{206 - 8(10)}{7}$$

32. Jenny notices that a music store is having a "No GST and 40% off the regular price" sale. If the regular price of a CD is \$15.99, then what is the maximum number of sale-priced CDs that Jenny can buy with her \$80 gift card?



$$80 = 9.594 \times 0.594 \times$$



Use the following information to answer question 39.

Jennifer wants to buy a computer that costs \$2 000, including all taxes. She will make a down payment of \$500 and arrange to make 5 equal payments for the balance owing.

39. Which of the following expressions can Jennifer use to determine the amount of each of the 5 equal payments?



$$($2\ 000 - 500) \div 5$$

B.
$$(\$2\ 000 - 500) \times 5$$

C.
$$(\$2\ 000 \times 5) - 500$$

D.
$$(\$2\ 000 \div 5) - 500$$

Use the following information to answer question 27.

Connie buys a horse for \$750 (including GST). She considers the two payment plans shown

Pay \$150 now and \$25 each month 7750 Pay \$200 now and \$55 each month

How many fewer monthly payments could Connie make if she selects Plan 2?

50=25 600 = X = 24 Payments

Use the following information to answer question 28.

The simplifications of two different expressions are shown below.

Expression X

$$(3^2)^3 - 4^4 + 4^2 \times (-5)^2$$

$$=3^6-4^4+4^2\times(-5)^2$$

$$= 729 - 256 + 16 \times 25$$

$$= 873$$

$$2^6 \div 2^2 + (-5^2) \times 3$$

$$=(2^3 + (-5^2) \times 3)$$

$$= 8 + (-25) \times$$

$$= 8 + (-75)$$

$$= -67$$

28. Which of the following statements about the simplifications above is true?



The simplifications of both expressions are correct.

The simplifications of both expressions are incorrect.



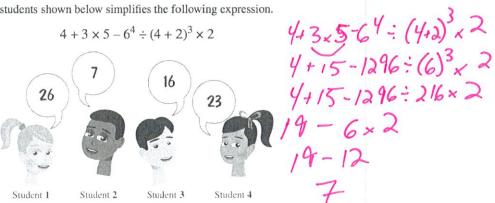
The simplification of Expression X is correct and the simplification of Expression Y is incorrect.

The simplification of Expression Y is correct and the simplification of Expression X is incorrect.

Use the following information to answer question 35.

Each of the four students shown below simplifies the following expression.

$$4 + 3 \times 5 - 6^4 \div (4 + 2)^3 \times 2$$



- 35. Which student correctly simplified the expression?
 - Student 1



Student 2



Student 4

Use the following information to answer question 17.

The letters P and Q each represent an integer in the expression below.

$$2 \times P^3 - 6 \div Q$$

2×P3-6÷Q want this to be positive

17. Which of the following values for P and Q would result in the lowest value for the expression shown above?

Row	P	Q
A.	-2	-2
В.	2	-2
(C)	-2	2 .
D.	2	2

35. What is the value of the expression $6 - \frac{1}{4} \div \frac{1}{2} - 2^3 \times 0.75$?

$$A.$$
 $-\frac{1}{2}$

B.
$$-\frac{1}{8}$$

C.
$$\frac{1}{8}$$

D.
$$\frac{1}{2}$$

$$6 - \frac{1}{4} \cdot \frac{2}{1} - 8 \cdot \frac{3}{4}$$