

KEY KEY KEY KEY KEY

MODULE D

Topic: Adding and Subtracting Signed Numbers

1. $-13 + 3$

-10

2. $-13 + (-3)$

-16

3. $13 + (-3)$

10

4. $-65 + 31$

-34

5. $-(-3 + -5)$

8

6. $8 + (-5) + (-2) + 1$

2

7. $-9.6 + 8.2$

-1.4

8. $-\frac{2}{5} - \frac{1}{3}$

$-\frac{11}{15}$

9. $-2 + \frac{3}{7} + 1 - \frac{1}{2}$

$-\frac{15}{14}$

10. $-12.8 + 0.32 - 1.47$

-13.95

11. $16 - (-2.7) - 0.56$

18.14

12. $-\left(6 - 7\frac{2}{3}\right)$

$1\frac{2}{3}$

13. $-5 - (-5) + 5$

5

14. $14 - 16 - 18 + 20$

0

15. $\frac{3}{8} + \frac{1}{4} - 6 - \frac{3}{4}$

$-\frac{49}{8}$

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MODULE D

Topic: Absolute Value and Order of Operations

1.	$2^2 - 3^2 =$	-5	2.	$ -3 - 5 $	8
3.	$ -5(-6) =$	30	4.	$-6 - 4 -3 $	-18
5.	$\frac{1-2^3}{7} =$	-1	6.	$5^2 - (-9 - 3) =$	37
7.	$-6 -4 =$	-24	8.	$-3(2^2)4 =$	-48
9.	$-4^2 + 4^2 =$	0	10.	$ -6 - 9 =$	15
11.	$\frac{-6-6}{-2-2} =$	3	12.	$6 + \frac{25}{-5} + 6 \cdot 3 =$	19
13.	$3 - 5(2) + 1 =$	-6	14.	$4 - 5(2) \div 2 =$	-1
15.	$5 - 15 \div 3 + 1 \cdot 2 =$	2	16.	$12 - 2[1 - (-8 + 2)] =$	-2
17.	$-[9 - (9 - 12)^2] =$	0	18.	$-3 - 4 6 - 7 ^3 =$	-7
19.	$\frac{2}{3} - 5\left(\frac{1}{5} - \frac{3}{10}\right)$	$\frac{7}{6}$	20.	$6.2 - 1.4(-3 - 1.2)^2$	-18.496

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MODULE D

Topic: Exponents, Multiplying, and Dividing Signed Numbers

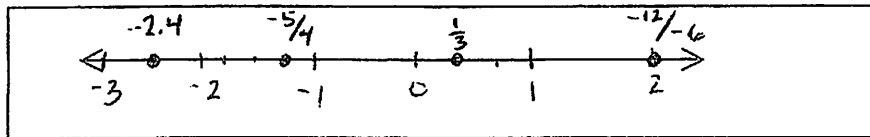
1.	$(-5)(4) =$	-20
3.	$15 \div -3 =$	-5
5.	$\frac{75}{-25} =$	-3
7.	$(-4)^2 =$	16
9.	$5(-2)(-4) =$	40
11.	$-3^2 =$	-9
13.	$-(5)^2$	-25
15.	$-2 \cdot \left(\frac{3}{4}\right)\left(-\frac{7}{9}\right)$	$\frac{7}{6}$
17.	$(-1.24)(-1000)$	1240
19.	$(-0.3)^2$	0.09

2.	$-1(-6) =$	6
4.	$-5 \div -5 =$	1
6.	$\frac{-9}{-1} =$	9
8.	$-3(-2)(-3) =$	-18
10.	$(-1)^{50} =$	1
12.	$\frac{0}{-16} =$	0
14.	$(-10)^4$	10,000
16.	$\frac{16.24}{-0.8}$	-20.3
18.	$\frac{-18.7}{-100}$	0.187
20.	$-\left(\frac{2}{3}\right)^3$	$-\frac{8}{27}$

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MODULE D
CUMULATIVE REVIEW

- | | | |
|-----|---|-----------------------------|
| 1. | Round -53.2072 to the nearest hundredth. | -53.21 |
| 2. | $\left(\frac{2}{3}\right) \cdot \left(\frac{15}{-8}\right) - 6$ | $-\frac{29}{4}$ |
| 3. | Divide -45.974 by 1.81. | -25.4 |
| 4. | $2\frac{4}{5} - 3\frac{2}{3}$ | $-\frac{13}{15}$ |
| 5. | $-6 + 2(-12 + 20)$ | 10 |
| 6. | Find $\frac{2}{5}$ of the product of 4 and -10. | -16 |
| 7. | $\frac{3 - 5(2)}{16 - 4^2}$ | undefined |
| 8. | $\left(-3\frac{1}{4}\right) \div \frac{3}{8}$ | $-\frac{26}{3}$ |
| 9. | Find the prime factorization of 140. | $2 \cdot 2 \cdot 5 \cdot 7$ |
| 10. | What is the LCM of 8 and 20? | 40 |
| 11. | Place the following on a number line: -2.4, $\frac{1}{3}$, $\frac{-12}{-6}$, $-\frac{5}{4}$ | |



- | | |
|-----|--|
| 12. | Insert $<$, $>$, or $=$: -3^2 $<$ $-(-10 + 1)$? |
| 13. | Insert $<$, $>$, or $=$: -0.45 $>$ $-\frac{1}{2}$ |
| 14. | $12 - (-4)^2$ -4 |
| 15. | $3(-5) - 2^3$ -23 |

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16. $-\frac{4}{5} + \frac{3}{10}$

$-\frac{1}{2}$

17. $-8.1 - 1.04$

-9.14

18. $12 - 1.5 + 2.01$

12.51

19. $-\frac{1}{4} + \frac{2}{3}\left(\frac{1}{2}\right)$

$\frac{1}{12}$

20. $(2.1)^2 - 4(1.3)$

-0.79

21. $1.8(-2) \div (-3^2)$

0.4

22. $3(-1.8) - 2(0.9)$

-7.2

23. $\left(-\frac{2}{3}\right)^2 - \left(\frac{1}{3}\right)^2$

$\frac{1}{3}$

24. $\frac{3(-5) - (-4)(-2)}{-7^2 + (-7)^2}$

undefined

25. On a number line, what is the distance between the following pairs of numbers?

A. -5 and -23

18 units

B. 14.6 and 37.1

22.5 units

C. -15 and 12

27 units

D. 10.8 and -57.3

68.1 units