



Section 1

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Section 2



Student Edition

Overview

This assessment is designed to provide teachers with information about student knowledge of critical foundational skills from the 7th grade curriculum necessary for student success in 8th grade mathematics.

Basic computational fluency of addition, subtraction, multiplication, and division including decimals and integers can be found on the 8th grade Computational Fluency Screener.

Key Points

-  Calculator usage and formula allowances should align with state test allowances.
-  Accommodations such as extended time are not allowed on this test.



Paper/Pencil Directions

Pass papers out to students face down. Ask each student to write his/her first and last name on the back of the paper.

Say:

"You will have 25 minutes to do 25 math problems. For each question, please circle the answer that you think is correct. Work as quickly and as accurately as you can. If you finish early, please go back and check your answers."

"Raise your hand if you have a question."

Say:

"Start."

Set the timer for 25 minutes. When the time is up,

say:

"Stop working. Hold your papers up in the air as I come to collect them."



Standards Alignment

DOMAIN: Ratios and Proportional Relationships		
Cluster Heading	Standards	Questions
Analyze proportional relationships and use them to solve real-world and mathematical problems.	MCC7.RP.1	1, 9, 17
	MCC7.RP.2	2, 10, 18
	MCC7.RP.3	3, 11, 19

DOMAIN: The Number System		
Cluster Heading	Standards	Questions
Apply and extend previous understanding of operations with fractions to add, subtract, multiply, and divide rational numbers.	MCC7.NS.1	20
	MCC7.NS.2	25
	MCC7.NS.3	4, 12

DOMAIN: Expressions and Equations		
Cluster Heading	Standards	Questions
Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	MCC7.EE.1	5, 13, 21
	MCC7.EE.4 (Equations)	6, 14, 22
	MCC7.EE.4 (Applications)	7, 15, 23
	MCC7.EE.4 (Inequalities)	8, 16, 24



1. Alex walked 4 miles in 100 minutes.
What was his unit rate?

A. 2.5 miles per minute
B. 0.4 miles per minute
C. 0.25 miles per minute
★ D. 0.04 miles per minute

MCC7.RP.1

2. What is the constant of proportionality in the table shown?

Time	Units Made
1 minute	10
4 minutes	70
7 minutes	130

A. 3
★ B. 20
C. 30
D. 60

MCC7.RP.2

3. Camille wants to buy a new sweater that costs \$84. It has been marked down to \$67.20. What is the percent of decrease?

A. 8%
★ B. 20%
C. 25%
D. 80%

MCC7.RP.3

4. Drew walked 1.2 miles. McKenzie walked 3.1 miles. Rodney walked half as far as McKenzie. How far did the three boys walk in all?

A. 4.9 miles
★ B. 5.85 miles
C. 6.45 miles
D. 8.5 miles

MCC7.NS.3

5. Which expression is equivalent to $3x - 6$?

A. $3(x - 6)$
B. $-3(x + 2)$
C. $-3(x - 6)$
★ D. $3(x - 2)$

MCC7.EE.1

6. Solve: $4g - 8 = 24$.

A. -4
B. 4
★ C. 8
D. 16

MCC7.EE.4
Equations



7. The perimeter of a rectangular fence is 240 yards. If the width is 50 yards, what is the length?

A. 48 yards
★ B. 70 yards
C. 140 yards
D. 190 yards

MCC7.EE.4
Applications

8. Solve: $2x + 22 > 64$.

A. $x > 43$
B. $x > 86$
★ C. $x > 21$
D. $x > 42$

MCC7.EE.4
Inequalities

9. If Jimmy can run 15 miles in 1 hour 20 minutes, what is his rate per hour?

A. $5\frac{3}{4}$ miles/hour
B. 10 miles/hour
★ C. $11\frac{1}{4}$ miles/hour
D. 20 miles/hour

MCC7.RP.1

10. If Wallace has 125 baseball cards in 5 boxes, Stephen has 150 cards in 3 boxes, and Jacob has 200 baseball cards in 8 boxes, which of the following is true?

★ A. Wallace and Jacob have the same ratio of cards per box.
B. Wallace and Stephen have the same ratio of cards per box.
C. Stephen and Jacob have the same ratio of cards per box.
D. None of the boys have the same ratio of cards per box.

MCC7.RP.2

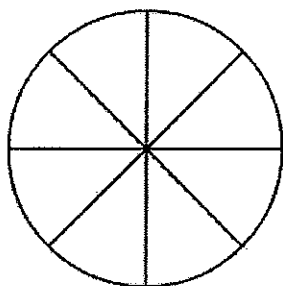
11. A DVD disc regularly costs \$12.50. It is marked down 10%. If the tax rate is 6%, what is the final cost of the disc?

A. \$11.25
★ B. \$11.93
C. \$12.00
D. \$18.01

MCC7.RP.3



12. Jawan ate $\frac{1}{4}$ of a pizza. Anthony ate $\frac{1}{2}$ of what was left after Jawan ate. How much pizza is left?



- A. $\frac{1}{4}$
B. $\frac{2}{8}$
★ C. $\frac{3}{8}$
D. $\frac{5}{8}$

MCC7.NS.3

13. Which of the following is equivalent to $3x - 5 + 2x - 1$?

- ★ A. $5x - 6$
B. $5x + 6$
C. $5x - 4$
D. $6x + 4$

MCC7.EE.1

14. What value of x makes the equation a true statement?

$$4(x - 2) = -8$$

- ★ A. 0
B. $-\frac{4}{3}$
C. -4
D. 4

MCC7.EE.4
Equations

15. The booster club was giving toys to donate to children for Christmas. If 0.36 of the toys were for children ages 5-12, and 0.22 of the toys were for children ages 13-17, what part of the toys were for the other age group?

- A. 1.12
B. 0.62
C. 0.58
★ D. 0.42

MCC7.EE.4
Applications



16. Which inequality is represented by the following statement?

The sum of five and a number is less than 7.

- A. $5 + a \geq 7$
B. $5 + a > 7$
C. $5 + a \leq 7$
★ D. $5 + a < 7$

MCC7.EE.4
Inequalities

17. There are 75 boys for every 66 girls in the 8th grade. What is the ratio of boys to girls?

- A. 50:33
★ B. 25:22
C. 33:50
D. 22:25

MCC7.RP.1

18. For every 10 t-shirts sold by the drama club, the club makes a profit of \$25. Which of the following equations is equivalent to this statement?

- ★ A. $p = 2.5t$
B. $p = 10t$
C. $p = 25t$
D. $p = 250t$

MCC7.RP.2

19. Cassie put \$150 of her Christmas gift money in the bank. If the bank pays her a simple interest rate of 3% per year, how much will she have in her account after one year?

- A. \$145.50
★ B. \$154.50
C. \$195
D. \$600

MCC7.RP.3

20. Jonathan has \$50 in his bank account. He wrote a check for \$73 to his friend. What will be his new account balance when the check clears?

- A. $-\$73$
B. $-\$27$
★ C. $-\$23$
D. $\$23$

MCC7.NS.1

21. Which of the following is equivalent to $2p - 0.3p$?

- A. $1.07p$
B. $0.3p$
★ C. $1.7p$
D. $2.3p$

MCC7.EE.1



22. Solve: $3(x + 5) = 6$.

- A. $0.\bar{3}$
- B. 7
- ★ C. -3
- D. -7

MCC7.EE.4
Equations

23. Tena has 50 dollars more than 3 times the amount Caleb has. If Caleb has \$70.25, how much money does Tena have?

- ★ A. \$260.75
- B. \$210.75
- C. \$160.75
- D. \$ 20.25

MCC7.EE.4
Applications

24. Your weekly income consists of \$20 from your allowance and \$8 for every hour you babysit. Which inequality shows you need to make more than \$50 this week?

- A. $8 + 20b < 50$
- B. $8 + 20b > 50$
- C. $20 + 8b < 50$
- ★ D. $20 + 8b > 50$

MCC7.EE.4
Inequalities

25. On a given day, the temperature in Fargo, ND, was -24° . If the next days' temperature measured $\frac{1}{2}$ as much on the thermometer, what was the new temperature?

- ★ A. -12°
- B. -48°
- C. 12°
- D. 48°

MCC7.NS.2



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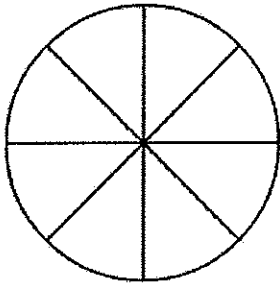
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