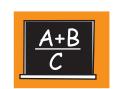




Functional Independence

Fall 2013







Mathematics

Item Descriptors

Grade S

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Item Descriptors





DIRECTIONS: Read each question. Choose the **BEST** answer for each question.





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NOTE: For each item listed throughout this booklet, the first statement is a summary of the Michigan Extended Grade Level Content Expectation (EGLCE) and the second statement or problem is the descriptor for the item's stem or question.

1 N.MR.07.FI.EG07: Find the next number in a simple repeating pattern

Describe rule to find number in decreasing skip-counting pattern

- **A** decreasing, but under by 1
- **B** correct
- **C** decreasing, but over by 1
- **2 N.ME.07.FI.EG03:** Express numbers to 100,000 using place value

Identify number in given place value

- **A** numeral in greater place value location
- **B** correct
- **C** numeral in less place value location

3 N.ME.07.FI.EG01: Read, write, and count using whole numbers to 100,000

Translate word form of number to standard form

- **A** incorrect in tens place
- **B** correct
- **C** incorrect in hundreds place
- **4 N.ME.07.FI.EG04:** Compare and order numbers to 100,000

Identify number greater than given number

- **A** correct
- **B** less than given number
- **C** less than given number



5 N.ME.07.FI.EG05: Round whole numbers

Round number in thousands to nearest hundred

- **A** 200 less than correct number
- B rounded number over 50 down, i.e., 100 less than correct number
- **C** correct
- **6 M.UN.07.FI.EG11:** Use equivalent calendar units

Translate years into months

- **A** 1 year = 6 months
- **B** correct
- **C** 1 year = 18 months
- **7 A.FO.07.FI.EG01:** Solve applied problems involving rates

Calculate total distance given rate and time

- **A** correct
- **B** under by 20 miles
- **C** rate + time

8 N.ME.07.FI.EG15: Recognize, name, represent, and write commonly used unit fractions

Identify shaded figure

- **A** correct
- **B** too much shading
- **C** not enough shading
- **9 M.UN.07.FI.EG08:** Measure perimeter

Calculate perimeter of rectangle given lengths of four sides

- **A** correct
- **B** 4 times the width
- **C** 4 times the length
- **10 M.UN.07.FI.EG07:** Understand circumference

Identify characteristic of circle

- **A** incorrect characteristic of circle
- **B** incorrect characteristic of circle
- **C** correct



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11 N.ME.07.FI.EG16: Place 0 and halves on a number line

> Identify measurement shown on ruler

- did not include fractional portion of measurement
- В correct
- C one inch greater

12 G.LO.07.FI.EG03: Read, interpret, and use maps and grids with legends

Follow directions to find location

- incorrect location
- incorrect location
- C correct

13 M.UN.07.FI.EG01: Select and use standard tools for measurement

> Identify tool used to measure time

- tool used to measure weight
- В correct

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C tool used to measure length

14 D.RE.07.FI.EG01: Read data from charts, tables, graphs, tallies, and pictographs

Identify minimum on bar graph

- Α maximum
- correct
- neither minimum nor C maximum

15 M.UN.07.FI.EG09: Convert units of measure

> Convert feet to inches given 1 foot = 12 inches

- subtracted feet from inches
- В added feet to inches
- correct

16 M.UN.07.FI.EG10: Tell time on a radial or digital clock to the nearest half-hour

Tell time on analog clock

- half hour earlier Α
- В correct
- hour later C

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17 N.MR.07.FI.EG06: Create, describe, and extend simple number patterns

> Find next number in skipcounting pattern given in table

- Α added 1 to previous number
- В correct
- C sum of all numbers in table
- **18 D.RE.07.FI.EG04:** Solve problems using data in tables, graphs, tallies, and pictographs

Calculate total from table

- Α mode
- 10 fewer than total В
- correct
- 19 M.UN.07.FI.EG03: Measure and compare integer temperatures

Identify warmest temperature

- Α coolest
- neither warmest nor coolest
- correct

20 D.RE.07.FI.EG03: Describe the shape of data using informal language

Describe data in line graph

- correct
- opposite trend
- C incorrect trend
- **21 G.LO.07.FI.EG03:** Read, interpret, and use maps and grids with legends

Interpret map

- Α correct
- incorrect direction
- opposite direction
- 22 G.LO.07.FI.EG02: Find and name locations using simple coordinate systems

Interpret grid to name location

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- Α correct
- incorrect location
- C incorrect location









23 A.FO.07.FI.EG02: Represent information using algebra

Translate multiplication word problem into number sentence

- A addition sentence
- **B** division sentence
- **C** correct
- **24 N.MR.07.FI.EG24:** Select appropriate numbers to solve problems

Add in context

- A incorrect total
- **B** incorrect total
- **C** corrected
- **25 M.PS.07.FI.EG15:** Add and subtract money in dollars and cents

Subtract money in decimal form in context

- **A** correct
- B subtracted smaller vaues from larger values with dollars
- **C** added

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26 M.UN.07.FI.EG13: Recognize equivalent sets of coins and hills

Recognize equivalent set of coins

- A over by 1 dime
- **B** correct
- **c** nickel instead of quarter
- **27 N.MR.07.FI.EG10:** Solve simple open sentences

Multiply two 1-digit numbers

- A added
- **B** used one incorrect factor
- **C** correct
- **28 N.MR.07.FI.EG21:** Multiply fractions by whole numbers

Identify equivalent expression to multiplying a whole number by a unit fraction

- **A** correct
- **B** $a \times 1/b = a + a + ... + a$ (b addends)
- **C** $a \times 1/b = a + 1/b + ... + a + 1/b (b addends)$







29 N.ME.07.FI.EG20: Understand sum of unit fractions

Add three unit fractions

A
$$1/x + 1/x + 1/x = 1/x$$

B
$$1/x + 1/x + 1/x = 3/(3x)$$

C correct

30 N.ME.07.FI.EG22: Use decimal fractions up to 2 decimals

Translate fraction in context to decimals

- **A** one-tenth of correct decimal
- **B** correct
- **C** ten times correct decimal

31 N.FL.07.FI.EG13: Calculate simple products

Multiply two 2-digit numbers

- A added
- **B** used one incorrect factor
- **C** correct

32 N.MR.07.FI.EG25: Solve applied problems

Multiply two 2-digit numbers

- **A** under by 20
- **B** correct
- **C** over by 5

33 N.FL.07.FI.EG23: Apply estimation in solving problems

Estimate subtraction in context

- **A** overestimate
- **B** overestimate
- **C** correct

34 N.FL.07.FI.EG13: Calculate simple products

Multiply or use repeated addition in word problem

- A used incorrect factor (or did not include one addend)
- **B** under by 5
- **C** correct

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35 M.PS.07.FI.EG12: Solve one-or two-step word problems

Determine time elapsed in context

- **A** correct
- **B** over by 1 hour
- **C** over by 2 hours





Item Descriptors 8



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Office of Standards and Assessment (OSA)

Phone: 1-877-560-8378

Website: www.michigan.gov/baa

Email: baa@michigan.gov