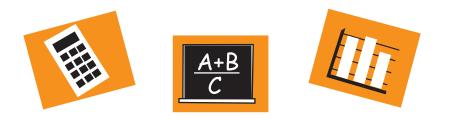


Fall 2013

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Mathematics

Item Descriptors



Funded by the Michigan Department of Education and the U.S. Department of Education (USED).

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Item Descriptors

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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.

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1 N.MR.05.FI.EG10: Find the next number in a simple repeating pattern

Describe addition pattern

- A correct
- **B** correct amount but subtracted
- **C** added incorrect amount
- 2 N.MR.05.FI.EG09: Create, describe, and extend simple number patterns

Given description, identify matching increasing pattern

A correct

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- **B** increasing pattern, but by incorrect amount
- **C** increasing pattern, but by incorrect amount

3 M.UN.05.FI.EG01: Select and use standard tools for measurement

Select tool to measure length

- **A** tool to measure time
- **B** correct
- **C** tool to measure temperature
- 4 M.PS.05.FI.EG03: Measure and compare integer temperatures

Use thermometer to measure temperature

- **A** correct
- **B** under by 4 degrees
- C under by 2 degrees

5 M.UN.05.FI.EG05: Measure lengths to the nearest inch

Measure length to nearest inch

- **A** under by one inch
- **B** correct
- **C** over by one inch
- 6 M.UN.05.FI.EG02: Select appropriate units of measure

Identify unit of measure for weight

- **A** unit of measure for length
- **B** unit of measure for time
- **C** correct

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7 M.UN.05.FI.EG04:

Approximate temperature

Select temperature to match given context

- A too cold
- **B** too cold
- **C** correct

8 M.PS.05.FI.EG08: Solve onestep word problems

Add increase to temperature

- **A** subtracted
- **B** incorrect addition
- **C** correct
- **9 N.ME.05.FI.EG08:** Identify and place whole numbers on a number line

Identify missing whole number on number line

- A number one less than smallest value shown
- **B** number one more than smallest value shown
- **C** correct
- **10 G.LO.05.FI.EG02:** Describe and use relative position of objects on a plane and in space

Determine relative position of two objects

- **A** correct
- **B** incorrect position
- **C** incorrect position

11 D.RE.05.FI.EG03: Describe the shape of data using informal language

Interpret trend of data in chart

- A incorrect trend
- **B** correct
- **C** incorrect trend
- **12 M.UN.05.FI.EG07:** Tell time on a radial or digital clock to the nearest hour

Select radial clock to given temperature

- **A** 2 hours earlier
- **B** 1 hour earlier
- **C** correct

13 M.PS.05.FI.EG11: Tell the amount of money in dollars and cents

Determine decimal value of given bills and coins

- A 5-dollar bill = \$1, 1 penny = 2 cents
- **B** quarter = 10 cents, penny = 2 cents
- **C** correct

14 M.UN.05.FI.EG09: Identify and use different coins and bills

Given value in dollars and cents, identify matching set of bills and coins

- A 1-dollar bill has value of five dollars
- **B** 5-dollar bill has value of ten dollars and one nickel has the value of a quarter
- **C** correct

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15 M.UN.05.FI.EG10: Recognize equivalent sets of coins and bills

Identify set of coins equivalent to given set

- A correct
- **B** 25 cents over
- C 10 cents over
- **16 M.PS.05.FI.EG12:** Add and subtract money in dollars and cents

Subtract money in word problem

- **A** 10 cents = \$1
- **B** correct
- C added

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17 N.ME.05.FI.EG03: Represent whole numbers to 10,000

Represent 2-digit number with blocks

- A transposed ones and tens
- **B** correct
- **C** correct tens, but did not include ones
- 18 D.RE.05.FI.EG02: Draw predictions and conclusions from data in tables, graphs, and charts

Interpret bar graph: find maximum value

- A neither maximum nor minimum
- **B** minimum, not maximum
- **C** correct
- **19 D.RE.05.FI.EG01:** Read data from charts, tables, graphs, tallies, and pictographs

Interpret bar graph

- A incorrect bar
- **B** correct
- **C** incorrect bar

20 N.ME.05.FI.EG02: Recognize equivalent representations for whole numbers to 10,000

Translate standard form to expanded form

A correct

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- **B** a,bcd = a,000 + b0 + c0 + d
- $\mathbf{C} \qquad \mathsf{a},\mathsf{bcd} = \mathsf{a} + \mathsf{b} + \mathsf{c} + \mathsf{d}$
- 21 N.ME.05.FI.EG06: Compare and order numbers to 10,000

Select 4-digit number greater than given 4-digit number

- A less than the given number
- **B** less than the given number
- **C** correct
- 22 N.ME.05.FI.EG01: Read, write, and count using whole numbers to 10,000

Translate standard form to word form

- A correct
- **B** omitted tens
- **C** incorrect in tens and ones place

23 N.MR.05.FI.EG13: Solve simple open sentences for addition and subtraction

Find subtrahend in subtraction equation

- A one less than correct subtrahend
- **B** correct
- **C** one more than correct subtrahend
- 24 N.ME.05.FI.EG05: Express numbers to 10,000 using place value

Determine number with value in tens place

A correct

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- **B** ones place = tens place
- **C** hundreds place = tens place
- **25 G.GS.05.FI.EG01:** Identify, describe, and compare two-dimensional shapes

Identify 2-D shape given name

- A incorrect 2-D shape
- **B** correct
- **C** incorrect 2-D shape

26 N.ME.05.FI.EG08: Identify and place whole numbers on a number line

> Identify shape at given location on number line in increments of 5

- A shape with location 10 less than correct location
- **B** shape with location 20 less than correct location
- **C** correct

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27 N.ME.05.FI.EG02: Recognize equivalent representations for whole numbers to 10,000

Translate standard form to expanded form

- **A** a,bcd = a,000 + b00 + d0 + c
- **B** correct
- **C** a,bcd = a,000 + c00 + b0 + d

28 N.FL.05.FI.EG11: Use addition properties of 0

Add 0 to 2-digit number

- A correct
- **B** added 1
- C added 10
- **29 M.PS.05.FI.EG06:** Measure and compare lengths, weights, and volumes

Compare heights in inches

A correct

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- **B** incorrect comparison
- **C** incorrect comparison
- **30 N.ME.05.FI.EG07:** Count numbers to 10,000 by 1s and to 1,000 by 2s, 5s, 10s, and 100s

Count by 100s to find total

- A 500 less than total
- **B** 100 less than total
- **C** correct

31 N.FL.05.FI.EG14: Apply estimation in solving problems

Estimate addition in context

A correct

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- **B** overestimate
- **C** multiplied
- **32 N.MR.05.FI.EG15:** Select appropriate numbers to solve problems

Select correct 2-digit addends and add

- **A** sum of first two addends
- **B** sum of second two addends
- **C** correct
- **33** N.FL.05.FI.EG12: Add and subtract two numbers with 1 or 2 digits each

Add in context

- A 10 under
- **B** correct
- **C** 10 over

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34 N.FL.05.FI.EG14: Apply estimation in solving problems

Estimate cost in dollars

- **A** underestimate by \$10
- **B** correct
- **C** overestimate by \$10

35 N.FL.05.FI.EG12: Add and subtract two numbers with 1 or

2 digits each

Subtract in context

- **A** less than correct difference
- **B** correct
- **C** added

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