INSTRUCTIONS FOR PRINTING THIS DOCUMENT

This document has been specially formatted to ensure it meets the specifications of the large-print accommodation. It must be printed on 11" x 17" paper. Please follow the instructions below to ensure the document prints correctly. Images are also provided to assist you.

- 1. Open the PDF file.
- 2. Click on "File", and on the drop-down menu that appears, select "Print". The Print window will pop up (see example below).
- 3. Make sure "Actual size" is selected
- 4. If your printer has the capacity to print double-sided, you may want to select the "Print on both sides of paper" option and the "Flip on long edge" option.
- 5. Then select the "Page Setup..." button in the lower left corner.

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- 6. In the Page Setup screen (see below) you will want to make sure to select the correct size option in the Size dropdown menu. It may be called "11 x 17" or "Tabloid (11 x 17")" or something similar.
- 7. Allow the Source field to default to "Automatically Select".
- 8. Orientation must be set to "Portrait".
- 9. Then select the "OK" button to save your changes and close the Page Setup screen.
- 10. Finally, select the "Print" button.

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2016 Practice Test Grade 7



Session 1

Directions:

Today, you will take Session 1 of the Grade 7 Mathematics Test. You will not be able to use a calculator in this session.

Read each question. Then, follow the directions to answer each question. Mark your answers by completely filling in the circles in your test booklet. Do not make any pencil marks outside of the circles. If you need to change an answer, be sure to erase your first answer completely.

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GO ON ►

Grade 7

Directions for Completing the Answer Grids

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To answer -3 in a question, fill in the answer grid as shown on the left in your Test Booklet.

1	3					
	\odot	\odot	\odot	\odot	\odot	\odot
	0	0	0	0	0	\bigcirc
	1	1	1	1	1	\bigcirc
	2	2	2	2	2	2
		3	3	3	3	3
	4	4	4	4	4	4
	5	5	5	5	5	5
	6	6	6	6	6	6
	7	7	7	7	7	$\overline{\mathcal{O}}$
	8	8	8	8	8	8
	9	9	9	9	9	9

To answer .75 in a question, fill in the answer grid as shown on the right in your Test Booklet.



GO ON ►

5

1. On Mondays, a café offers its customers a 25% discount on all coffee purchases. The café usually charges *c* dollars for a flavored coffee. The expression below can be used to determine the cost of a flavored coffee on Mondays.

c - 0.25c

Which expression could also be used to determine the cost of a flavored coffee on Mondays?

- O.25c
 O.25c
- B 0.75c
- © 1.25c
- D 1.75c
- 2. Use the equation below to answer the question.

$$\frac{5}{8} \times ? = -1$$

What is the missing number in the equation?

GO ON ►

Grade 7

3. Payton bought packages of black T-shirts and packages of white T-shirts. Each package of black T-shirts contains 3 shirts. Each package of white T-shirts contains 4 shirts. Payton bought *b* packages of black T-shirts and 5 packages of white T-shirts for a total of 38 T-shirts.

Which equation could Payton solve to determine the number of packages of black T-shirts, *b*, he bought?

- (A) 38 5(4) = b
- (B) 3b + 4(5) = 38
- \odot 38 3b = 5
- (b) 3(4) + 5b = 38
- 4. Lara charges \$12 per hour for babysitting. If *f* represents Lara's total fee after babysitting for *h* hours, which equations can be used to model the situation?

7

Select **all** the correct equations.

(a) f = 12h(b) $f = \frac{1}{12}h$ (c) h = 12f(d) $h = \frac{1}{12}f$ (e) f = h + 12(f) 12 = f + h

GO ON ►

5. The table below shows the high temperature for each of six days in February. It also shows the difference between the high and the low temperature for each day.

Daily Temperatures

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
high	8°F	3°F	–2°F	0°F	13°F	4°F
difference	9°F	8°F	5°F	3°F	11°F	9°F

Select **all** the days that the temperature reached below -3° F.

- Monday
- B Tuesday
- © Wednesday
- D Thursday
- Friday
- ⑤ Saturday
- 6. Paige had 18 dollars. She spent 6 of these dollars.

Select **all** the expressions that could be used to represent the number of dollars that Paige has now.

- A 18 + 6
- © 18-6
- E 18 + (−6)

GO ON ►

Grade 7

- 7. Jason is shopping at a store for a shirt. He has a coupon that will reduce the original price of the shirt by \$2. A 4% sales tax will be added to the reduced price. Which inequality represents all of the possible original prices, *p*, of shirts that will cost less than \$20 after the coupon and tax are applied?
 - 1.04*p* < 17.92
 - 1.04*p* < 22.08
 - © 0.96*p* < 18.00
 - 0.96*p* < 22.00
- 8. What is the decimal equivalent of $\frac{5}{6}$?
 - A 0.83
 - B 0.83
 - © 1.2
 - D 1.2

GO ON ►

9

9. Which fractions are equivalent to $\frac{5}{-9}$?

Select **all** that apply.

A	$-\frac{5}{9}$
B	$-\frac{-5}{9}$
©	$\frac{-5}{-9}$
D	$-\frac{5}{9}$
E	- <u>-</u> 5 -9
F	$-\frac{-5}{-9}$

- 10. Shawn's total score for two rounds of a game was less than 0. He scored 24 points during the first round of the game. He scored *n* points during the second round of the game. Which statement about *n* must be true?
 - A The value of *n* is 24.
 - B The absolute value of *n* is 24.
 - © The value of *n* is greater than 24.
 - The absolute value of n is greater than 24.

GO ON ►

Grade 7

11. Erik feeds stray cats near his house. The graph below shows different amounts of cat food he puts out based on the number of cats near his house.



Erik graphs point P to represent the unit rate in terms of cups of cat food per cat near his house. What are the coordinates of point P?

- (0, 0)
- (1, $\frac{2}{3}$)
- © (1, 1)
- (3/2, 1)

GO ON ►

11

- 12. Which situation can be modeled by the expression $5\frac{3}{4} + -\frac{1}{4}$?
 - Anna is making salad dressing. She starts with $5\frac{3}{4}$ ounces of buttermilk and adds $\frac{1}{4}$ ounce of spices.
 - Ben has a board that has been shortened by $5\frac{3}{4}$ inches. He removes another $\frac{1}{4}$ inch from the board.
 - © There are $5\frac{3}{4}$ pounds of oranges in a basket before Carly adds another $\frac{1}{4}$ pound of oranges.
 - There are $5\frac{3}{4}$ cups of flour in a container before David removes $\frac{1}{4}$ cup for making stew.
- 13. Which expressions are equivalent to 2.5 4(1.5 10) + 3?

Select **all** that apply.

- A 2.5 + 4(-1.5 + 10) + 3
- B 2.5 − 4 + 3(1.5 − 10)
- © 2.5 − 4(10 − 1.5) + 3
- \bigcirc 3 + 2.5 4(1.5 10)
- € 4 2.5(1.5 10) + 3

GO ON ►

Grade 7

- 14. Donald has two bags of grapes.
 - Bag A contains *g* grapes.
 - Bag B contains 40% fewer grapes than bag A.

The expression g - 0.40g can be used to find the number of grapes in bag B. Donald correctly simplifies the expression until it has just one term. What is the coefficient of g in Donald's simplified expression?

Enter your answer in the box.



15. Evaluate the expression.

$$-2(3\frac{1}{2}-4\frac{5}{8})$$

Enter your answer as a decimal in the box.



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GO ON ►

13

16. The value of the expression $-3 \div 5$ can be modeled by a point on the number line.



Which point on the number line most likely represents the value of the expression?

- A point A
- B point B
- © point C
- D point D
- 17. An employee will spend $\frac{2}{3}$ of his time each day answering phone calls. Each day, he will work 6.5 hours. How many hours will the employee answer phone calls each day?



GO ON ►

Grade 7

18. A bird feeder is $\frac{3}{8}$ full of seed. Written as a decimal, how full is the bird feeder?

Enter your answer in the box.



- 19. Which expression is equivalent to $5 + -2\frac{1}{3}$?
 - (a) $5-2+\frac{1}{3}$ (b) $5+2-\frac{1}{3}$ (c) $\frac{15}{3}-\frac{7}{3}$ (d) $-\frac{10}{3}-\frac{2}{3}$

GO ON ►

15

20. Kenny made pillows to sell at a fair.

- He paid \$175.96 for supplies.
- He charged \$8.75 for each pillow he sold.

Kenny sold 27 pillows at the fair. What was Kenny's profit in dollars?

Enter your answer in the box.





Grade 7

17



Session 2 (Calculator)

Directions:

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Read each question. Then, follow the directions to answer each question. Mark your answers by completely filling in the circles in your test booklet. Do not make any pencil marks outside of the circles. If you need to change an answer, be sure to erase your first answer completely.

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GO ON ►

Grade 7

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To answer -3 in a question, fill in the answer grid as shown on the left in your Test Booklet.

1	3					
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	1	1	1	1	1	1
	2	2	2	2	2	2
		3	3	3	3	3
	4	4	4	4	4	4
	5	5	5	5	5	5
	6	6	6	6	6	6
	7	7	7	7	7	$\overline{\mathcal{O}}$
	8	8	8	8	8	8
	9	9	9	9	9	9

To answer .75 in a question, fill in the answer grid as shown on the right in your Test Booklet.



GO ON ►

19



21. The spinner shown is divided into 8 equal sections.



The arrow on this spinner is spun once.

What is the probability that the arrow will land on a section labeled with a number **greater** than 3?



GO ON ►

Grade 7

- 22. Reagan will use a random number generator 1,200 times. Each result will be a digit from 1 to 6. Which statement **best** predicts how many times the digit 5 will appear among the 1,200 results?
 - It will appear exactly 200 times.
 - It will appear close to 200 times but probably not exactly 200 times.
 - © It will appear exactly 240 times.
 - It will appear close to 240 times but probably not exactly 240 times.

GO ON ►

21

23. Rosy waxes $\frac{2}{3}$ of her car with $\frac{1}{4}$ bottle of car wax.

At this rate, what fraction of the bottle of car wax will Rosy use to wax her entire car?



GO ON ►

Grade 7





Based on the plots, which statement **best** compares the numbers of almonds in the jars from the two brands?

- The number of almonds in jars from Brand X tends to be greater and more consistent than those from Brand Y.
- In the number of almonds in jars from Brand X tends to be greater and less consistent than those from Brand Y.
- © The number of almonds in jars from Brand X tends to be fewer and more consistent than those from Brand Y.
- The number of almonds in jars from Brand X tends to be fewer and less consistent than those from Brand Y.

GO ON ►

23

25. Jeremy runs a shop that rents standard tuxedos. The total cost to rent different numbers of standard tuxedos is given in the table below.

Number of Tuxedos	Total Cost				
2	\$130				
4	\$260				
6	\$390				

Standard Tuxedo Rental

Which statements prove that the number of standard tuxedos rented and the total cost are in a proportional relationship based on the table?

Select **all** that apply.

- The ratio of total cost to number of tuxedos is \$65 per tuxedo.
- Integration of total cost to number of tuxedos is \$130 per tuxedo.
- © The difference between the total costs in consecutive rows is constant.
- In the points on the graph lie on a straight line that passes through the origin.
- If all the points on the graph lie on a straight line that passes through the point (0,130).
- 26. Claire is digging a hole for a fence post. So far, she has dug $\frac{2}{3}$ of the hole in

 $\frac{1}{2}$ of an hour. She continues to dig at the same rate. How many minutes will it take her to dig the entire hole?

- A 45
- ® 50
- © 70
- D 100

GO ON ►

Grade 7

Use the information provided to answer Part A and Part B for question 27.

- 27. A salesperson earns commission on the sales that she makes each month.
 - The salesperson earns a 5% commission on the first \$5,000 she has in sales.
 - The salesperson earns a 7.5% commission on the amount of her sales that are greater than \$5,000.

Part A

This month the salesperson had \$8,000 in sales. What amount of commission, in dollars, did she earn?

- A \$400
- B \$475
- © \$525
- \$600

Part B

The salesperson earned \$1,375 in commission last month. How much money, in dollars, did she have in sales last month?

Enter your answer in the box.

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	õ	õ	õ	õ	õ	õ



GO ON ►

25

28. The attendance for the last 4 years at a county fair is shown in the table.

Year	Attendance
1	9,278
2	10,365
3	12,128
4	13,304

County Fair Attendance

This year, the first 20% of people attending the fair will receive a raffle ticket. Of the

people who receive raffle tickets, $\frac{1}{3}$ will receive a small prize.

- Based on the data in the table, determine a reasonable estimate of the number of people who will attend this year's fair. Explain how you found your estimate.
- Use your estimate to find the approximate number of people who will receive a small prize at this year's fair.
- Show your work or provide an explanation of how you found the approximate number of people who will receive a small prize at this year's fair.

Enter your answers and your work or explanations in the box provided.

GO ON ►

Grade 7

- 29. Rita gets paid \$16 per hour for the first 8 hours she works each day. She earns
 - $1\frac{1}{2}$ times her hourly pay rate for time she works over 8 hours each day. Rita's work

day for Monday is described in the list.

- worked from 8:15 a.m. to 12:45 p.m.
- took a 45-minute lunch break
- worked until 6:15 p.m.

Rita does not get paid for her lunch break.

How much money did Rita earn for the time she worked on Monday? Show or explain all of the steps you used to determine your answer.

Enter your answer and your work or explanation in the box provided.

GO ON ►

27



30. Consider the equation 5 + x = n.

What must be true about any value of x if n is a negative number? Explain your answer. Include an example with numbers to support your explanation.

Enter your answer, your explanation, and your example in the box provided.

GO ON ►

Grade 7

31. Part A

Which sets of measurements could be the interior angle measures of a triangle?

Select each correct answer.

- A 10°, 10°, 160°
- B 15°, 75°, 90°
- © 20°, 80°, 100°
- D 35°, 35°, 105°
- E 60°, 60°, 60°

Part B

Which sets of measurements could be the side lengths of a triangle?

Select each correct answer.

- B 4 cm, 8 cm, 13 cm
- © 5 cm, 9 cm, 14 cm

GO ON ►

29



Use the information provided to answer Part A and Part B for question 32.

32. Part A

The graph shows the distance in miles, *d*, a car travels in *t* hours.



Explain why the graph does or does not represent a proportional relationship between the variables d and t.

Enter your explanation in the box provided.

GO ON ►

Grade 7

Part B

Two cars leave from the same city at the same time and drive in the same direction. The table shows the distances traveled by each car.

Hours of Travel	Miles Traveled by Red Car	Miles Traveled by White Car
1	77	55
2	122	110
3	167	165
4	212	220
5	257	275

Two	Cars	Travel

- Determine whether the relationship between the number of hours traveled and the number of miles traveled is proportional for each car.
- Use the table to explain how you determined your answers.
- Describe how the graph of the distance traveled by each car would support your answers.

31

Enter your answers and your explanations in the box provided.





Session 3 (Calculator)

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GO ON ►

Grade 7

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	\odot	\odot	\odot	\odot	\odot	\odot
	0	0	0	0	0	\bigcirc
	1	1	1	1	1	1
	2	2	2	2	2	2
		3	3	3	3	3
	4	4	4	4	4	4
	5	5	5	5	5	5
	6	6	6	6	6	6
	7	7	$\overline{\mathcal{O}}$	$\overline{\mathcal{O}}$	$\overline{\mathcal{O}}$	$\overline{\mathcal{O}}$
	8	8	8	8	8	8
	9	9	9	9	9	9

To answer .75 in a question, fill in the answer grid as shown on the right in your Test Booklet.



GO ON ►

33

33. Cheryl volunteers to mow the lawn at a retirement home. She can mow $\frac{1}{4}$ of the lawn in $\frac{3}{4}$ of an hour. At that rate, how many hours will it take Cheryl to mow the entire lawn?

Enter your answer in the box.



GO ON ►

Grade 7

34. Josephine owns a diner that is open every day for breakfast, lunch, and dinner. She offers a regular menu and a menu with daily specials. She wanted to estimate the percentage of her customers who order specials. She selected a random sample of 50 customers who had lunch at her diner during a three-month period. She determined that 28% of these customers ordered from the menu with specials.

Which statement about Josephine's sample is true?

- The sample is the percentage of customers who ordered daily specials.
- In the sample might not be representative of the population because it only included lunch customers.
- © The sample shows that exactly 28% of Josephine's customers ordered daily specials.
- No generalizations can be made from this sample, because the sample size
 of 50 is too small.
- 35. A right triangle has legs measuring 4.5 meters and 1.5 meters.

The lengths of the legs of a second triangle are proportional to the lengths of the legs of the first triangle.

Which could be the lengths of the legs of the second triangle?

Select each correct pair of lengths.

- 6 m and 2 m
- 8 m and 5 m
- © 7 m and 3.5 m
- 10 m and 2.5 m
- I1.25 m and 3.75 m

GO ON ►

35

- 36. A student usually saves \$20 a month. He would like to reach a goal of saving \$350 in 12 months. The student writes the equation 350 = 12(x + 20) to represent this situation. Solve the equation for *x*.
 - Show your work or explain your answer.
 - Write your answer as a sentence that describes what the variable x represents.

Enter your answers and your work or explanation in the box provided.

GO ON ►

Grade 7

37. The box plot shows the heights of grade 7 students in two random samples from two different schools. The sample from each school is 30% of the student population.



Based on the box plot, which comparison is true?

- Grade 7 students from School A are typically shorter than grade 7 students from School B because of the difference in the interquartile ranges of grade 7 student heights at the schools.
- Image: Boundary Content of School A are typically shorter than grade 7 students from School B because of the difference in the medians of grade 7 student heights at the schools.
- © Grade 7 students from School A are typically taller than grade 7 students from School B because of the difference in the interquartile ranges of grade 7 student heights at the schools.
- Image: Oracle 7 students from School A are typically taller than grade 7 students from School B because of the difference in the medians of grade 7 student heights at the schools.

GO ON ►

37



38. Part A

A game at a carnival has 4 colors on a wheel, as seen in the diagram. Each section of the wheel is the same size.



Lori wants to design a computer simulation to study how many spins it takes to land on each color once. Using the digits 0 through 9, she will assign a digit to each section of the wheel. Which option describes how the digits can be assigned?

- Assign the digit 0 to blue, 1 to yellow, 2 to red, and 3 to green.
- B Assign the digit 4 to blue, 3 to yellow, 2 to red, and 1 to green.
- C Assign the digits 0, 1, and 2 to blue; 3, 4, and 5 to yellow; 6, 7, and 8 to red; and 9 to green.
- Assign the digits 0, 1, 2, and 3 to blue; 4, 5, and 6 to yellow; 7 and 8 to red; and 9 to green.

GO ON ►

Grade 7

Part B

Lori designs a computer simulation with 25 trials and uses the data from the simulation to create a graph. The graph shows the relative frequency of the number of spins in her simulation to land on each color once. Using the graph, what is the probability that a player lands on each color once in less than 7 spins?



Enter your answer in the box.



GO ON ►

39



39. Devin is buying concert tickets. The concert tickets have a regular price of \$40 each. Devin has a coupon that gives a 5% discount off the regular price of the tickets. The website he uses to buy the tickets charges a 10% fee for purchasing tickets. The website's fee is based on the original price of the tickets before any discounts. What is Devin's total cost, in dollars, to buy 2 tickets, including the discount and the website's fee?

Enter your answer in the box.



GO ON ►

Grade 7

40. Part A

At Fairview Middle School, 75 band members need to raise a total of \$8,250 for a trip. So far, they have raised \$3,120.

How much money, in dollars, per band member, still needs to be raised for the trip?

Enter your answer in the box.



Part B

The entire band decides to have a concert to raise the money for the trip. Tickets for the concert will cost \$7.50 each. A local business agrees to donate an additional \$0.50 for each \$1.00 in ticket sales to the band for their trip.

What is the **least** number of concert tickets the band must sell in order to raise the rest of the money needed for the trip?

Enter your answer in the box.



(2) (2) 2) 2) (3) 3) 3 3 $\left(4\right)$ 5) (5) 5 5 6) 6 6 6 7 (7) 8) (8) 8

GO ON ►

41

Use the information provided to answer Part A and Part B for question 41.

- 41. The coordinates of a quadrilateral are shown:
 - point *J*(-4.5, 3) •

Mathematics

- point *K*(-1.2, 3) point *L*(-1.2, 8.7) •
- •
- point $\dot{M}(-4.5, 8.7)$ •

Brenda claims that quadrilateral *JKLM* is a square.

Part A

Show or explain why Brenda is not correct.

Enter your work or explanation in the box provided.



Grade 7



Part B

Select new coordinates for point *L* and point *M* so that quadrilateral *JKLM* is a square. Show or explain all of the steps you used to determine the new locations of the two points.

Enter your answers and your work or explanation in the box provided.

GO ON ►

43

Use the information provided to answer Part A and Part B for question 42.

42. A worker has to drive her car as part of her job. She receives money from her company to pay for the gas she uses. The table shows a proportional relationship between *y*, the amount of money that the worker receives, and *x*, the number of work-related miles driven.

millago hatoo				
Distance Driven, <i>x</i> (miles)	Amount of Money Received, <i>y</i> (dollars)			
25	12.75			
35	17.85			
40	20.40			
50	25.50			

Mileage Rates

Part A

Explain how to compute the amount of money the worker receives for any number of work-related miles. Based on your explanation, write an equation that can be used to determine the total amount of money, *y*, the worker receives for driving *x* work-related miles.

Enter your explanation and your equation in the box provided.

GO ON ►

Grade 7



Part B

On Monday, the worker drove a total of 134 work-related and personal miles. She received \$32.13 for the work-related miles she drove on Monday. What percent of her total miles driven were work-related on Monday? Show or explain your work.

Enter your answer and your work or explanation in the box provided.



GO ON ►

45



43. Jamal will slice a right circular cylinder into two congruent pieces. Which two-dimensional plane sections **could result** from the slice Jamal makes?

Select **each** correct answer.

- (A) circle
- B pentagon
- © hexagon
- D triangle
- (E) rectangle



Grade 7

STATE BOARD OF ELEMENTARY AND SECONDARY EDUCATION TEST SECURITY POLICY¹

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1 Excerpts from Bulletin 118

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