Grade 9 Mathematics (10F)

Substrand: Measurement

Sı	necific	Learning	Outcome:	9.55.1
		Learning	Outcome.	7.33.1

General Questions	Answers
1. Add: 1050 + 40 + 12	1102
2. In a class of 16 students, 75% wear sandals. How many students does that represent?	12 students
3. How many metres are equivalent to 49.1 km?	49 100 m
4. If gasoline costs 99¢ per litre, how much would 30 litres cost (in dollars)?	\$29.70
5. Evaluate: √25	5
6. If 7 boxes of candy are \$3.50, how much are 4 boxes?	\$2.00
Unit Questions	
Use the circle below to answer questions 7 to 10.	
7. Name a central angle.	∠AOB or ∠BOA
8. Name an inscribed angle of arc AB.	∠ACB or ∠BCA
9. Name a chord.	\overline{AB} or \overline{AC} or \overline{BC}
10. Name a minor arc.	\widehat{AB} or \widehat{BC} or \widehat{AC}
Other Questions	
11.	
12.	

Grade 9 Mathematics (10F)



Substrand: Measurement

Specific Learning Outcome: 9.SS.1

Ger	neral Questions	Answers
1.	If you deposit one cheque for \$35 and a second cheque for \$49, then withdraw an amount of \$24, how much more money will you have in your account?	\$60
2.	At 25¢ per minute for a long-distance telephone call, how much will you pay for a call that lasts 35 minutes?	\$8.75
3.	Choosing a person at random, what is the probability that the person was born on a Monday?	$\frac{1}{7}$
4.	Which fraction is larger: $\frac{1}{4}$ or $\frac{1}{3}$?	$\frac{1}{3}$
5.	What is the total cost of 7 pencils at 13¢ each?	91¢
6.	If a vintage video game originally worth \$60 increases in cost by 15%, what is the new cost of the video game?	\$69
Uni	t Questions	
7.	What is the measure of a right angle?	90°
8.	The measure of a central angle is the measure of an inscribed angle that is subtended by the same arc.	two times
9.	All inscribed angles that are subtended by the same arc are	congruent
10.	What is the measure of the angle formed between a tangent line and a radius segment at the point of tangency?	90°
Oth	ner Questions	
11.		
12.		

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1. If the delivery fee of a \$650 couch is 1%, what is the

3. What two numbers have a product of 24 and a sum

General Questions

2. Estimate: 49×61

Specific Learning (Outcome: 9.SS.1
	Answers
amount of the fee?	\$6.50
	≈ 3000
of 11?	3 and 8
a \$34 tax and a	\$524
	119
s 50 m by 30 m?	1500 m ²
ed by a semicircle?	90°
$A \longrightarrow B$	3.75 cm
_ the measure of	half
af are in a cuite a d	

4.	What is the total cost of a \$430 ticket if you also pay a \$34 tax and a \$60 delivery fee?	\$524
5.	What number is 86 more than 33?	119
6.	What is the area of a rectangular field that measures 50 m by 30 m?	1500 m ²
Uni	t Questions	
7.	What is the measure of an inscribed angle subtended by a semicircle?	90°
8.	Determine the radius of the following circle if $AB = 7.5$ cm.	3.75 cm
9.	The measure of an inscribed angle is the measure of the central angle subtended by the same arc.	half
10.	A central angle measures 64°. What is the measure of an inscribed angle subtended by the same arc?	32°
Oth	ner Questions	
11.		
12.		

Grade 9 Mathematics (10F)



Substrand: Measurement

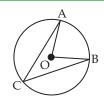
Specific Learning Outcome: 9.SS.1

General Questions				
1. Evaluate: $\frac{1}{3} + \frac{1}{8}$				

- 2. Julia must pay \$3000 in 6 equal payments. What is the value of each payment?
- 3. How much are 5 doughnuts if one doughnut costs 24¢?
- 4. In a group of 120 students, 20% play squash. How many students does that represent?
- 5. What is the median of the following set of numbers: 64, 82, 70, 73, 91?
- 6. Keegan is 27 years old in 2014. In what year was he born?

		_				
Un	it	O	ue	•st	ĺΟ	ns

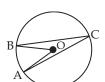
7. In the circle with centre O, ∠ACB measures 40°. What does ∠AOB measure?



- 8. An arc that measures less than half of a circle is called a _____ arc.
- 9. What term is used to describe line segment \overline{AB} ?



10. If \angle AOB is 42°, what is the measure of \angle ACB?



Other Questions

11.

12.

Answers	
11 24	
\$500	
\$1.20	
24 students	
73	
1987	
80°	
minor	
chord	
21°	

Grade 9 Mathematics (10F)

D-5

Answers

Substrand: Measurement

General Questions

Specific Learning Outcome: 9.SS.1

Ger	neral Questions	Answers
1.	You want to make a trip from Winnipeg to Paris. If Winnipeg to Montreal is 3.5 hours and Montreal to Paris is 7.75 hours, how long is your flight?	11.25 hours
2.	Estimate the value of $\sqrt{914}$.	≈ 30
3.	What is the price of an orange if 5 oranges cost \$3.75?	75¢
4.	Add: $\frac{1}{2} + \frac{1}{8}$	<u>5</u> 8
5.	Write the expression that represents the product of a number and 5.	5 <i>x</i>
6.	How many 5 kg bags can be filled with one 110 kg bag of potatoes?	22 bags
Uni	t Questions	
7.	The arc of a circle that is exactly half of the circle is called	a semicircle
8.	The circumference of a circle is 54 cm. What is the length of the semicircle arc?	27 cm
9.	What is the measure of an inscribed angle subtended by a semicircle?	90°
10.	The point on the circle where a radius segment and tangent line meet is called	the point of tangency
Oth	ner Questions	
11.		
12.		

Grade 9 Mathematics (10F)

D-6

Substrand: Measurement

Specific Learning Outcome: 9.SS.1

General Questions

- 1. Laura said, "My mother was 31 years old when I was born." If Laura is now 24 years old, how old is her mother?
- 2. What is the cost of 8 water bottles at 99¢ each?
- 3. If 20% of the 300 students at a school have lunch at home, how many students have lunch at school?
- 4. Which is lower: 13% of \$300 or \$32?
- 5. Richard's savings account balance was \$214 and he withdrew \$60. What is the new balance?
- 6. What is the lowest common denominator of $\frac{1}{3} + \frac{1}{9}$.

Unit Questions

- 7. The line perpendicular to a radius segment at the point of tangency is called _____.
- 8. Write the measure of angle m.



9. Write the measure of angle x.



10. In the circle shown, ∠ABD measures 63°. Name the other angle that must also measure 63°.



Other Questions

11.

12.

Α	n	S	W	e	rs	

55 years old

\$7.92

240 students

\$32

\$154

9 or ninths

a tangent line

20°

80°

∠ACD or ∠DCA