

Turtle Math Worksheets

Grade 3 – Mathematics



Lesson Details

Grade Level:	3	Curriculum Links:	Mathematics	Time Needed:	45 minutes
Learning Goal	To gain practice and confidence in math, as well as explore applications related to the real world.				
Success Criteria	By the end of this lesson, students will have successfully completed the worksheet.				
Specific Expectations	<p><i>Quantity Relationships</i></p> <ul style="list-style-type: none"> • Read and print in words whole numbers to one hundred, using meaningful contexts; • Round two-digit numbers to the nearest ten, in problems arising from real life situations; • Solve problems that arise from real-life situations and that relate to the magnitude of whole numbers up to 1000. <p><i>Operational Sense</i></p> <ul style="list-style-type: none"> • Solve problems involving the addition and subtraction of two-digit numbers, using a variety of mental strategies; • Add and subtract three-digit numbers, using concrete materials, student generated algorithms, and standard algorithms; • Multiple to 7×7 and divide $49/7$, using a variety of mental strategies. <p><i>Attributes, Units and Measurement Sense</i></p> <ul style="list-style-type: none"> • Estimate, read, and record positive temperatures to the nearest degree Celsius; • Estimate, measure, and record the perimeter of two-dimensional shapes, through investigation using standard units; • Estimate, measure, and record area. 				
Materials Needed	Worksheet (attached), Pencil, Calculator (optional).				

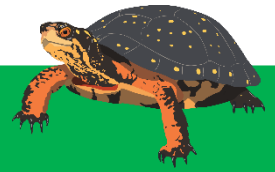
Lesson Description

Overview	Students will complete fun math problems, related to turtles, in the attached worksheet.
Activity	<ol style="list-style-type: none"> 1. Hand out the worksheet to the students. 2. Optional: Students can work individually or in small groups. 3. Optional: As a class, take up the worksheet.
Blacklist Masters	<ul style="list-style-type: none"> • Worksheet (attached) • For more information, please visit https://www.turtleguardians.com/
Place-Based Learning	Students can relate what they have learned about turtles to their local wildlife.
Inquiry-Based Learning	<p>Using Structured Inquiry, students will complete the worksheet.</p> <p>Ask the students:</p> <ul style="list-style-type: none"> • Why is it important to help turtles cross the road? • Why are wetlands important for turtle conservation? • Why are turtles less active when the temperature outside gets too hot? • What is a BioBlitz?

Lesson Description

Turtle Stories	Try your hand at making new math problems for others to solve. Students are encouraged to share what they have learned and any new problems created on the Turtle Stories website, found here: https://www.turtlestories.ca/
Turtle Guardian Program Links	In Level 1 (Ontario Turtle Identification) of the Turtle Guardian Program , students will learn how to identify all 8 species of Ontario's turtles, information about their habitats and how to help them. For more information, please visit https://www.turtleguardians.com/what-is-a-turtle-guardian/

My Notes



Turtle Math Worksheet



Sydney took a road trip over 3 days. On day one, she stopped to help 1 Snapping Turtle cross the road in the direction it was travelling. Later that day, she stopped to help 2 Painted Turtles cross the road too! On the second day, Sydney helped 5 turtles cross the road. On the third day, she helped 9 turtles cross the road.

A. How many turtles did Sydney help on day one?

$$\underline{1} + \underline{2} = \underline{3}$$

B. What was the total number of turtles Sydney helped cross the road?

$$\underline{1} + \underline{2} + \underline{5} + \underline{9} = \underline{17}$$

C. Round your number to the nearest 10.

$$= \underline{20}$$

Did you know?

Always help turtles cross in the direction they were headed! Turtles have internal compasses and know exactly where they want to go.



Grace went out looking for turtles!
She recorded her sightings in the chart.

A. How many turtles did Grace see?

$$\underline{1} + \underline{6} + \underline{2} + \underline{0} = \underline{9}$$

B. If Grace did not see any Snapping Turtles, how many turtles would Grace have seen?

$$\underline{9} - \underline{1} = \underline{8}$$

Turtle Species	Number of Turtles
Snapping Turtle	1
Painted Turtle	6
Map Turtle	2
Musk Turtle	0



Meredith was tracking some Blanding’s Turtles in a wetland for research. She started out tracking 20 turtles. Unfortunately, the wetland was near a road. 12 of the turtles were hit by cars and taken to recover at the turtle hospital.

A. Use subtraction to find out how many turtles are left in the wetland.

$$\underline{20} - \underline{12} = \underline{8}$$

B. Meredith found 4 more turtles! What is the new number of turtles Meredith is tracking?

$$\underline{8} + \underline{4} = \underline{12}$$



When Daniel researches turtles, he must keep track of the temperature outside. He knows that he will not see many turtles when it is hot outside, because they will be hiding in the water. He records the temperatures over a week in the chart.

A. Order the temperatures from coldest to hottest.

$$\underline{17^\circ\text{C}} \quad \underline{18^\circ\text{C}} \quad \underline{22^\circ\text{C}} \quad \underline{24^\circ\text{C}} \quad \underline{26^\circ\text{C}}$$

B. If turtles are more active when it’s cooler out, which day would Daniel see the most turtles?

Monday

Day of the Week	Temperature
Monday	17° C
Tuesday	24° C
Wednesday	18° C
Thursday	22° C
Friday	26° C



A turtle hospital recorded the number of injured turtles that were brought in during one summer. These turtles were hit on the road by cars and need help to recover.

A. How many turtles were brought to the hospital in total?

835

B. Some people are scared of Snapping Turtles, and don’t know how to properly carry them. If no one brought in Snapping Turtles, how many turtles would then be at the hospital?

560

C. Write your answers for A. and B. in words.

A = Eight Hundred and Thirty Five

B = Five Hundred and Sixty

Turtle Species	Number of Turtles
Blanding’s Turtle	65
Painted Turtle	315
Map Turtle	150
Snapping Turtle	275
Musk Turtle	30



Musk Turtles are one of Ontario's smallest turtles! They lay small nests of eggs. If four female Musk Turtles laid three eggs each, how many eggs would there be in total?

$$\underline{4} \times \underline{3} = \underline{12}$$



A group of Spiny Softshell Turtles all laid their eggs on the same beach. There was a total of 40 eggs laid. Each turtle laid 10 eggs.

A. Divide to find out how many turtles there were.

$$\underline{40} \div \underline{10} = \underline{4}$$

B. Write your answer out in sentence form.

There were four turtles who laid the eggs.

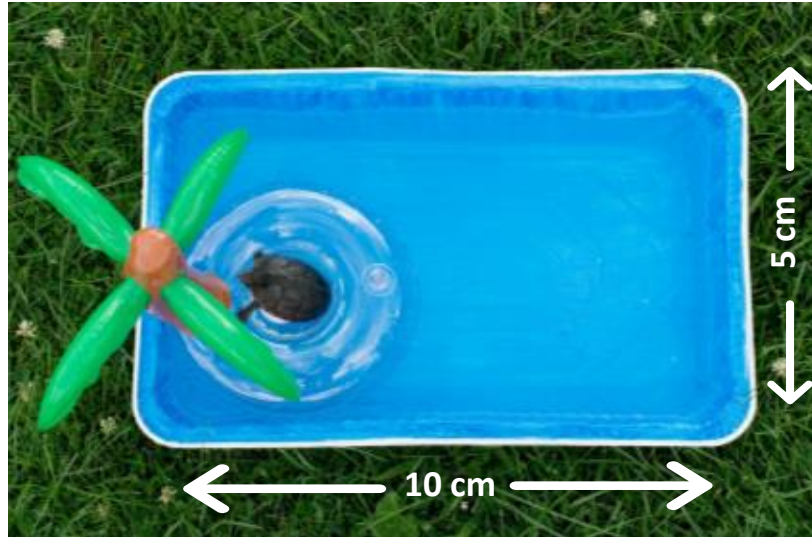


A BioBlitz is when a large group of people go out and look for plants and wildlife. The Land Between hosted a BioBlitz to look for Turtles in Haliburton. 49 people participated. They wanted to split into equal groups. Use division to find out how many groups there would be. How many people are in each group? Show your work.

There would be 7 groups of 7 people.



Mica the Musk Turtle is having a pool party at the Turtle Guardians Headquarters! She wants to know how big her pool is. Show your work.



A. What shape is Mica's pool?

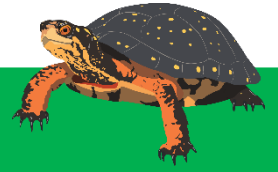
Rectangle

B. What is the perimeter of Mica's pool?

30 cm

C. What is the area of the pool?

50 cm²



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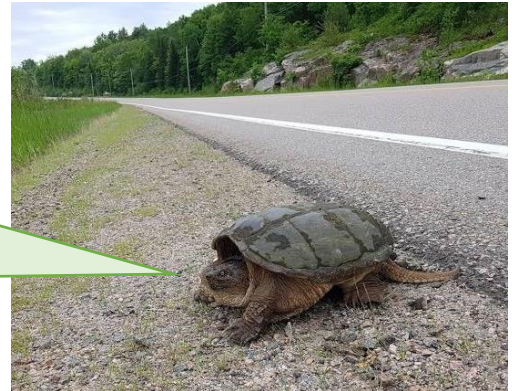
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C. What is the area of the pool?
