Grade 8 Friction Worksheets

A. Fill in the Blanks:

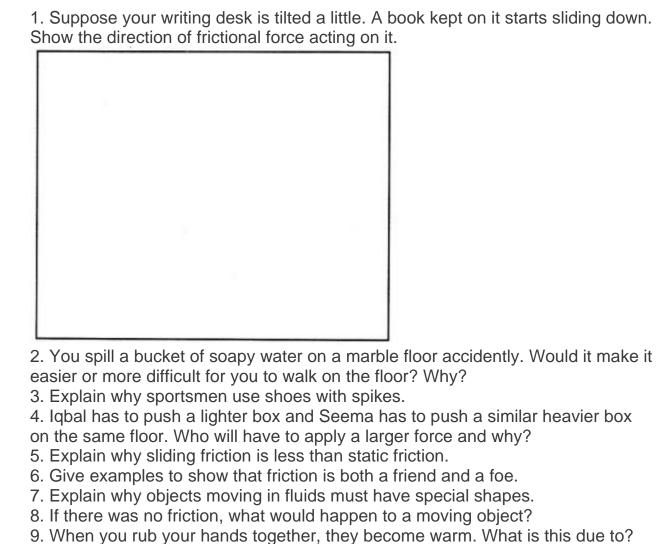
1. Friction of	opposes	the	between	the	surfaces	in	contact	with	each
other.									

- 2. Friction depends on the of surfaces.
- 3. Friction produces
- 4. Sprinkling of powder on the carrom board friction.
- 5. Sliding friction is than the static friction.

B. Tick (\checkmark) the Correct Option:

- 1. Four children were asked to arrange forces due to rolling, static and sliding friction in a decreasing order. Their arrangements are given below. Choose the correct arrangement.
- (a) rolling, static, sliding
- (b) rolling, sliding, static
- (c) static, sliding, rolling
- (d) sliding, static, rolling
- 2. Alida runs her toy car on dry marble floor, wet marble floor, newspaper and towel spread on the floor. The force of friction acting on the car on different surfaces in increasing order will be:
- (a) wet marble floor, dry marble floor, newspaper and towel
- (b) newspaper, towel, dry marble floor, wet marble floor
- (c) towel, newspaper, dry marble floor, wet marble floor
- (d) wet marble floor, dry marble floor, towel, newspaper
- 3. It is difficult to walk on ice because:
- (a) pressure is high
- (b) pressure is low
- (c) friction is high
- (d) friction is low
- 4. Friction can be increased by:
- (a) making the surfaces smooth
- (a) lubricating the surfaces
- (c) using ball bearings
- (d) making the surfaces rough

C. Answer the following questions in short:



D. State True or False:

- 1. Brakes on, cars will work best if the friction between the brake shoes and wheels is reduced.
- 2. Friction causes wastage of energy.
- 3. Friction of air makes the meteors burn.
- 4. Oil is applied to machines to increase friction.

E. Match the following:

'A'	'B'
1. Sparks are produced when a pair of scissors	a. To make them rough and increase friction.
is sharpened against a grinding wheel.	
2. A piece of chalk wears out as it is used on a	b. Friction produces heat.
blackboard.	-
3. Trolleys have wheels.	c. Friction causes wear and tear.

4. The leather soles of new shoes are rubbed on a rough surface.	d. Rolling reduces friction.													
F. Imagine that friction suddenly vanishes. How would life be affected. List														
ten such situations. G. Unjumbled the words and find the name of friction. You can take help from clues given:														
								1. The friction uncountered by an object when it slides on a surface.						
								INGDILS						
	_													
1 1 1 1 1 1 1														
2. The friction encountered by a spherical on cylindrical object rolling on a														
surface.														
LLGINOR														
LEGINOR	_													
3. The friction existing between the two surfaces in contact there is no relative														
motion between them.														
TICATS														