

Name _____

Period _____

Friction Quiz

Identify whether the following conditions would cause **'LESS'** friction or **'MORE'** friction. Circle your answer.

- | | | |
|-------------------------------|------|------|
| 1. Wheels | LESS | MORE |
| 2. Lubricant | LESS | MORE |
| 3. Soft materials | LESS | MORE |
| 4. Ball bearings | LESS | MORE |
| 5. More pressure | LESS | MORE |
| 6. Smooth surface | LESS | MORE |
| 7. Rollers | LESS | MORE |
| 8. Starting an object to move | LESS | MORE |
| 9. Rough surface | LESS | MORE |

_____ 10. How many surfaces must rub against each other to produce friction?

_____ 11. Friction is a _____.

_____ 12. One effect that friction causes.

_____ 13. The second effect that friction causes.

_____ 14. One examples of a lubricant.

_____ 15. Another example of a lubricant.

Use for #11-15:

- A. oil
- B. slowed motion
- C. force
- D. heat
- E. lotion

Identify whether the following is an example of **'HARMFUL'** friction or **'HELPFUL'** friction:

- | | | |
|-----------------------------|---------|---------|
| 16. Writing | HARMFUL | HELPFUL |
| 17. Scraping your knee | HARMFUL | HELPFUL |
| 18. Erosion | HARMFUL | HELPFUL |
| 19. Opening a jar | HARMFUL | HELPFUL |
| 20. Braking to stop the car | HARMFUL | HELPFUL |
| 21. Lighting a match | HARMFUL | HELPFUL |
| 22. Earthquakes | HARMFUL | HELPFUL |

Identify whether the following statements are **TRUE** or **FALSE**.

_____ ~~23. Boats have no friction because they travel on water.~~

_____ 24. Air resistance is friction that occurs when one surface is the air.

_____ 25. Basketball shoes are made of rubber in order to **reduce** the amount of friction with the floor.