

# DIESEL ELECTRIC LOCOMOTIVES

## THE INFORMATION SOCIETY

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**Who is the largest manufacturer of diesel-electric locomotives?** Diesel Locomotive Works, Varanasi It is the largest diesel-electric locomotive manufacturer in India. DLW locomotives have power outputs ranging from 2,600 horsepower (1,900 kW) to 5,500 horsepower (4,100 kW).

**Who builds diesel-electric locomotives?** The driving factors that have made Progress Rail's EMD® brand the premier provider of diesel-electric locomotive technology for nearly 100 years. We continue this proud history by producing freight, passenger and road-switching locomotives for use in the U.S. and abroad.

**What is the advantage of a diesel-electric locomotive?** In addition to the listed benefits, diesel-electrics were gentler on railroad track because they lacked the reciprocating pistons and rods used on steam locomotives. Also, multiple diesel-electric units could be hooked together and operated by a single crew, making it easy to add horsepower to a heavy train.

**What is the most efficient diesel-electric locomotive?** The Evolution Locomotive is the most advanced, fuel-efficient, and environmentally clean diesel locomotive in history. It is a hybrid diesel-electric locomotive that captures braking energy and stores it in batteries and allows railroads to move a ton of freight nearly 500 miles on a single gallon of fuel.

**What does a new diesel-electric locomotive cost?** Ever check out the list prices of brand-new main line diesel-electric locomotives? They are expensive, about \$3 million each.

**What is the most beautiful diesel locomotive?** The ALCo PA series locomotives are considered by many to be the most attractive diesel locomotives ever produced. The PA locomotives were built by a partnership of American Locomotive Company and General Electric between 1946 and 1953. They offered two models, the PA-1 initially followed by the PA-2.

**What was the most powerful diesel-electric locomotive?** The Centennials were the largest diesel-electric locomotives ever built. Actually comprising two engines on one frame, they delivered 6,600 horsepower. Designed and built exclusively for Union Pacific Railroad, the units were named in honor of the railroad's centennial anniversary celebration in 1969.

**Are diesel locomotives being phased out?** California will be the first state to require that trains stop using diesel and other fossil fuels. Passenger and industrial locomotives must be zero-emission by 2030. Freight trains get an extra five years to comply.

**What is the oldest diesel-electric locomotive?** The world's first Diesel-powered locomotive was operated in the summer of 1912 on the Winterthur-Romanshorn Railroad in Switzerland.

**What are the disadvantages of the diesel electric locomotive?** Disadvantages of a diesel electric transmission are the potential complexity, cost, and decreased efficiency due to energy conversion. Diesel engines and electric motors are both known for having high torque at low rpm, this may leave high rpm with little torque.

**How far can a diesel electric locomotive travel?** It could operate for long periods with no lost time for maintenance; thus, in North America the diesel could operate through on a run of 3,200 km (2,000 miles) or more and then, after servicing, start the return trip. Steam locomotives required extensive servicing after only a few hours' operation.

**Are diesel electric locomotives AC or DC?** In a diesel–electric locomotive, the diesel engine drives either an electrical DC generator (generally, less than 3,000 hp (2,200 kW) net for traction), or an electrical AC alternator-rectifier (generally 3,000 hp net or more for traction), the output of which provides power to the traction motors

that drive the ...

**How many miles per gallon does a diesel-electric locomotive get?** However, to provide a general idea: Diesel-Powered Trains: Diesel locomotives are commonly used in many rail systems. On average, a typical freight diesel locomotive can consume 3 to 5 gallons of diesel fuel per mile.

**How fast can a diesel-electric locomotive go?** The locomotives weigh between 100 and 200 tons (91,000 and 181,000 kilograms) and are designed to tow passenger-train cars at speeds of up to 125 miles per hour (200 kph). Siemens' modern engines produce up to 4,200 horsepower, and the generator can turn this into almost 4,700 amps of electrical current.

**How far can a locomotive go on a gallon of diesel?** Similarly, a typical train might haul 3,000 tons of freight 500 miles and consume approximately 2,964 gallons of diesel fuel. The efficiency of this freight haul would be calculated as:  $(3000 \text{ tons} \times 500 \text{ miles}) / (2,964 \text{ gallons}) = 506 \text{ ton-miles per gallon}$ .

**What is the life expectancy of an electric locomotive?** They are usually designed for a service life of about 30 to 40 years, but with a midlife refurbishment that period can be extended.

**What is the lifespan of a diesel locomotive?** Do steam locomotives last longer than diesel? No. The reason is that the steam locomotive boilers and smokeboxes are prone to extreme corrosion and erosion, and the usual lifespan of a steam locomotive is 15 to 30 years, after which it is past its economical lifespan. Diesels can last in line drive for 50 to 70 years.

**What will replace diesel trains?** Over the next few weeks its old diesel trains will be replaced by new electric cars, completing a multi-decade electrification effort. The new electric trains will be modern, quieter, faster, ridiculously greener, and more frequent. The project cost about \$2.5 billion.

**What is the best diesel locomotive ever built?** The Union Pacific Centennial is the largest and most powerful diesel locomotive ever built.

**What was the largest diesel-electric locomotive ever built?** 6936. The Centennials were the largest diesel-electric locomotives ever built. Actually

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comprising two engines on one frame, they delivered 6,600 horsepower. Designed and built exclusively for Union Pacific Railroad, the units were named in honor of the railroad's centennial anniversary celebration in 1969.

**Which country has the best locomotive?**

**Who makes diesel-electric engines?** With a decade of experience and hundreds of diesel electric packages in operation globally, Cummins is one of the pioneers in diesel electric propulsion.

**Who is the largest locomotive manufacturer in the US?** General Electric Co. is the world's largest builder of diesel-electric locomotives. Its products are used by numerous railroads to haul freight and passengers.

**What is the most advanced diesel locomotive?** A Brief History Of This Engine The Union Pacific Centennial is the largest and most powerful diesel locomotive ever built.

**Who makes the biggest diesel engine in the world?**

**What are the disadvantages of diesel-electric drive?** Disadvantages of a diesel electric transmission are the potential complexity, cost, and decreased efficiency due to energy conversion. Diesel engines and electric motors are both known for having high torque at low rpm, this may leave high rpm with little torque.

**Which is better, a diesel or an electric locomotive?** Electric locomotives usually cost 20% less than diesel locomotives, their maintenance costs are 25–35% lower, and cost up to 50% less to run. The chief disadvantage of electrification is the high cost for infrastructure: overhead lines or third rail, substations, and control systems.

**How much horsepower does a diesel-electric locomotive have?** Elements of the diesel locomotive The diesel engine may operate on the two-stroke or four-stroke cycle. Rated operating speeds vary from 350 to 2,000 revolutions per minute, and rated output may be from 10 to 4,000 horsepower.

**Who builds GE locomotives now?** GE Transportation is a division of Wabtec. It was known as GE Rail and owned by General Electric until sold to Wabtec on February 25, 2019. The organization manufactures equipment for the railroad,

marine, mining, drilling and energy generation industries.

### **Who makes locomotives for Amtrak?**

**What is the most famous American diesel locomotives?** The Electro-Motive “F-unit”: Born in the autumn of 1939, it would be produced, in eight different models, until 1960 and would number more than 7,500 strong. More than any other locomotive, it would be the force that “dieselized” the railroads of North America.

**What will replace diesel locomotives?** Hydrogen-powered fuel cells, combined with batteries to store electricity, would be a zero-emissions solution to replace the diesel-electric locomotive, Moslener says. But fuel cells don't yet have the power density required for a line-haul locomotive.

### **Which country has the best locomotive?**

**What was the largest diesel-electric locomotive ever built?** 6936. The Centennials were the largest diesel-electric locomotives ever built. Actually comprising two engines on one frame, they delivered 6,600 horsepower. Designed and built exclusively for Union Pacific Railroad, the units were named in honor of the railroad's centennial anniversary celebration in 1969.

**What is the most efficient diesel engine ever made?** On April 20, 2024, the 2024 World Congress on Internal Combustion Engines commenced in Tianjin, China, marking a pivotal moment for the industry. Weichai Power stole the spotlight by unveiling a groundbreaking achievement: the world's first diesel engine boasting an intrinsic thermal efficiency of 53.09%.

### **Who has the best diesel engine right now?**

### **Who makes the longest lasting diesel engine?**

**What is the fairy haven and the quest for the wand about?** Rani, Tinker Bell, and the fairy queen, Clarion, set off on a perilous quest to find a wand, a journey that takes them across an ocean, to the palace of the Great Wanded fairies. Many obstacles stand between the Never fairies and their desire for peace in Fairy Haven, not the least of which are their own secret dreams.

**Who gives Willow the wand?** Cherlindrea gives Willow a magic wand and directs him to ask the sorceress, Fin Raziel (Patricia Hayes), for help. Cherlindrea sends along two brownies as guides, Franjean (Rick Overton) and Rool (Kevin Pollak).

**What happened when the fairy waved her wand?** She looked so pretty in that beautiful gown and the amazing glass slippers that the Fairy Godmother created for her. But she didn't have a carriage to go to the ball. So, the Fairy Godmother waved her magic wand on a pumpkin and turned it into a fine carriage for Cinderella.

**Q: What is The Manager's Phrase Book 3000 and why is it valuable?**

**A:** The Manager's Phrase Book 3000 is a comprehensive resource that provides 3000 powerful phrases, ready-to-use language, and templates for managers in various situations. It empowers managers to communicate effectively, build trust, inspire teams, and achieve optimal outcomes.

**Q: How can The Manager's Phrase Book help me enhance my communication skills?**

**A:** The book offers a wide array of phrases tailored to specific workplace scenarios, including:

- Facilitating meetings and giving presentations
- Providing constructive feedback and handling difficult conversations
- Motivating teams, building relationships, and negotiating agreements
- Using appropriate body language and non-verbal cues

**Q: What are some of the key features of The Manager's Phrase Book?**

**A:** The book's standout features include:

- **Situation-based Phrases:** Organized by topic, the phrases cater to different workplace situations, making it easy to find the right words.
- **Real-Life Examples:** Each phrase is accompanied by a real-life example, demonstrating how it can be used effectively in practice.

- **Templates and Checklists:** Templates for performance reviews, meeting agendas, and other essential documents provide practical support.

**Q: How can I ensure that I use the phrases effectively?**

**A:** To maximize the impact of the phrases:

- **Practice Regularly:** Repeat and rehearse the phrases to enhance delivery and authenticity.
- **Tailor to Your Needs:** Adapt the phrases to fit your personal style and the specific context.
- **Seek Feedback:** Ask trusted colleagues or a mentor for feedback on your communication to identify areas for improvement.

**Q: Is The Manager's Phrase Book suitable for all levels of management?**

**A:** The book is designed to benefit managers at all levels, from entry-level supervisors to senior executives. Whether you are aspiring to become a manager or seeking to enhance your existing skills, The Manager's Phrase Book 3000 provides a valuable toolkit for effective leadership and communication.

## **Study Guide for Geometry: Houghton Mifflin Harcourt Answers**

### **1. Triangles**

- What are the different types of triangles based on angle measures?
- Answer: Acute (all angles  $< 90^\circ$ ), Obtuse (one angle  $> 90^\circ$ ), Right (one angle  $= 90^\circ$ )

### **2. Quadrilaterals**

- Name the four special parallelograms.
- Answer: Rectangle, Square, Rhombus, Trapezoid

### **3. Circles**

- What is a radius and a diameter?

- Answer: Radius is a line segment from the center to a point on the circle, diameter is a line segment passing through the center and connecting two points on the circle.

#### 4. Similarity

- Define similarity and state its properties.
- Answer: Similarity is a relationship between two shapes that have the same shape but may differ in size. Properties: Corresponding angles are congruent, corresponding sides are proportional.

#### 5. Area and Volume

- Find the formula for the area of a triangle and a circle.
- Answer: Area of Triangle =  $\frac{1}{2}$  base height, Area of Circle =  $\pi$  \* radius<sup>2</sup>

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