| 年度 | | 問題番号 | 図形 | 小問番号 | 問 | 単元名 | 面積比（相似比） | 面積比（底辺比） | 体積比 | 補助線 | 三平方計算 | 円周角の定理 | 接線 | 辺の比（3分割） | 等しい面積発見 | 等積変形 | 合同発見条件利用 | 二等辺三角形発見 | 直角三角形発見 | 相似な図形の発見 | 相似比で長さ | 内接する図形 | 角の二等分 | 文字使用方程式利用 | 回転体（体積） | おうぎ形（面積） | 球（表面積） | 球（体積） | 平行線の性質 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | A | 1 | 円 | | 角度 | 円周角の定理 | | | | | | ● | | | | | | ● | | | | | | | | | | | |
| | | 2 | 半円 | ① | 長さ | 相似 | | | | | | | | | | | | | | | ● | | | ● | | | | | |
| | | | | ② | 面積何倍 | 相似 | | ● | | | | | | | | | | | ● | | ● | | | | | | | | | |
| | | 3 | 立方体 | ① | 長さ | 三平方の定理 | | | | | ● | | | | | | | | ● | | | | | | | | | | |
| | | | | ② | 体積（回転体） | 相似 | | | | | | | | | | | | | | ● | ● | | | | ● | | | | |
| | B | 1 | 円 | | 角度 | 円周角の定理 | | | | | | ● | | | | | | | | | | | | | | | | | |
| | | 2 | 長方形 | ① | 長さ | 相似 | | | | | | | | | | | | | | ● | ● | | | | | | | | |
| | | | 直角三角形 | ② | 面積何倍 | 三平方の定理 | ● | | | | ● | | | | | | ● | | | | | | | | | | | | |
| | | 3 | 正三角柱 | ① | 表面積(球) | 平面図形 | | | | | | | | | | | | | | | | | | | | | ● | | |
| | | | 球 | ② | 体積 | 三平方の定理 | | | | | ● | | | | | | ● | | | | | ● | | | | | | | |
| 29 | A | 1 | 正三角形正方形 | | 角度 | 平面図形 | | | | | | | | | | | | ● | | | | | | | | | | | |
| | | 2 | 半円 | ① | 長さ何倍 | 円周角の定理 | | | | | ● | ● | | | | | | ● | ● | | | | | | | | | | ● |
| | | | | ② | おうぎ形面積 | 平面図形 | | | | | | | | | | ● | | | | | | | | | | ● | | | |
| | | 3 | 台形 | ① | 長さ | 三平方の定理 | | | | ● | ● | | | | | | | | ● | | | | | | | | | | |
| | | | | ② | 面積何倍 | 相似 | | ● | | ● | | | | | | | | | | ● | ● | | | | | | | | ● |
| | B | 1 | 円 | | 角度 | 円周角の定理 | | | | | | ● | | | | | | | ● | | | | | | | | | | |
| | | 2 | 正方形 | ① | 面積何倍 | 相似 | ● | | | | | | | | | | | | | ● | | | | | | | | | |
| | | | | ② | 面積 | 相似 | ● | ● | | ● | | | | | | | | | | ● | ● | | | | | | | | |
| | | 3 | 正四角錐 | ① | 長さ | 三平方の定理 | | | | ● | ● | | | | | | | | ● | | | | | | | | | | |
| | | | | ② | 錐体の体積 | 三平方の定理 | | | | | ● | | | | | | | | ● | | | | | | | | | | |
| 28 | A | 1 | 円 | | 角度 | 円周角の定理 | | | | | | ● | | | | | | | | | | | | ● | | | | | |
| | | 2 | 三角形 | ① | 面積 | 三平方の定理 | | | | | ● | | | | | | ● | | ● | | ● | | | | | | | | |
| | | | (正・直角) | ② | 面積何倍 | 相似 | | ● | | | | | | | | | | | | ● | ● | | | | | | | | |
| | | 3 | 三角柱 | ① | 長さ | 三平方の定理 | | | | | ● | | | | | | | ● | ● | | | | | | | | | | |
| | | | | ② | 体積 | 相似 | | | | ● | | | | | | | | | ● | ● | ● | | | | | | | | | |
| | B | 1 | 三角形 | | 角度 | 平面図形 | | | | | | | | | | | | | | | | | ● | ● | | | | | |
| | | 2 | 長方形 | ① | 長さ | 三平方の定理 | | | | | ● | | | | | | | | ● | ● | ● | | | | | | | | |
| | | | | ② | 面積何倍 | 相似 | | ● | | ● | | | | ● | | | | | | ● | ● | | | | | | | | | |
| | | 3 | 直角 | ① | 面積 | 相似 | | | | ● | | | | | | | | | | | ● | | | | | | | | |
| | | | 三角形 | ② | 体積(回転体) | 三平方の定理 | | | | ● | ● | | | | | | ● | | ● | ● | ● | | | | ● | | | | |
| 27 | A | 1 | ひし形 | | 角度 | 平面図形 | | | | | | | | | | | | ● | | | | | | | | | | | |
| | | 2 | 球 | ① | 表面積 | 平面図形 | | | | | | | | | | | | | | | | | | | | | | ● | |
| | | | 正四角錐 | ② | 体積 | 三平方の定理 | | | | ● | ● | | | | | | | | ● | | | | | | | | | | |
| | | 3 | おうぎ形 | ① | 長さ | 三平方の定理 | | | | | ● | | | | ● | | ● | | ● | ● | ● | | | | | | | | |
| | | | | ② | 面積何倍 | 平面図形 | | | | | | | | | | | | | | | | | | | | ● | | | |
| | B | 1 | 円 | | 角度 | 円周角の定理 | | | | | | ● | | | | | | | | | | | | | | | | | ● |
| | | 2 | 直角 | ① | 長さ | 三平方の定理 | | | | | ● | | | | | | | | ● | ● | ● | | | | | | | | |
| | | | 三角形 | ② | 面積 | 相似 | | | | ● | ● | | | | | | | | | ● | ● | | | | | | | | |
| | | 3 | 立方体 | ① | 長さ | 三平方の定理 | | | | | ● | | | | | | | | ● | | | | | ● | | | | | |
| | | | | ② | 体積 | 相似 | | | | ● | | | | | | | | | ● | ● | ● | | | | | | | | |
| 26 | A | 1 | 円 | | 角度 | 円周角の定理 | | | | | | ● | | | | | | | | | | | | ● | | | | | ● |
| | | 2 | 二等辺 | ① | 長さ | 相似 | | | | | | | | | | | | | ● | ● | ● | | | | | | | | |
| | | | 三角形 | ② | 面積 | 三平方の定理 | | | | ● | ● | | | | | | | | ● | ● | ● | | | ● | | | | | |
| | | 3 | 円柱・球 | ① | 長さ | 相似 | | | | ● | ● | | ● | | | | | | ● | | | | | | | | | | |
| | | | | ② | 体積何倍 | 空間図形 | | | | ● | | | | | | | | | | | | | | | | | | ● | |
| | B | 1 | 円 | | 角度 | 円周角の定理 | | | | | | ● | | | | | | | | | | | | ● | | | | | |
| | | 2 | 正方形 | ① | 長さ | 三平方の定理 | | | | | ● | | | | | | | | ● | ● | ● | | | | | | | | |
| | | | | ② | 面積 | 相似 | | | | ● | | | | | | | | | | | ● | | | | | | | | ● |
| | | 3 | 円柱・円錐 | ① | 長さ | 空間図形 | | | | | | | | | | | | | | | | | | ● | | | | | |
| | | | | ② | 体積 | 相似 | | | ● | | | | | | | | | | | | | | | | | | | | |